DS5 Network Media Player

All functions, specifications and images in this manual may change without prior notice. Please ask your sales representative for the latest firmware and PDF version of the manual.

Date: May 10, 2007 - v1.0

DS5

DS5 Board Only

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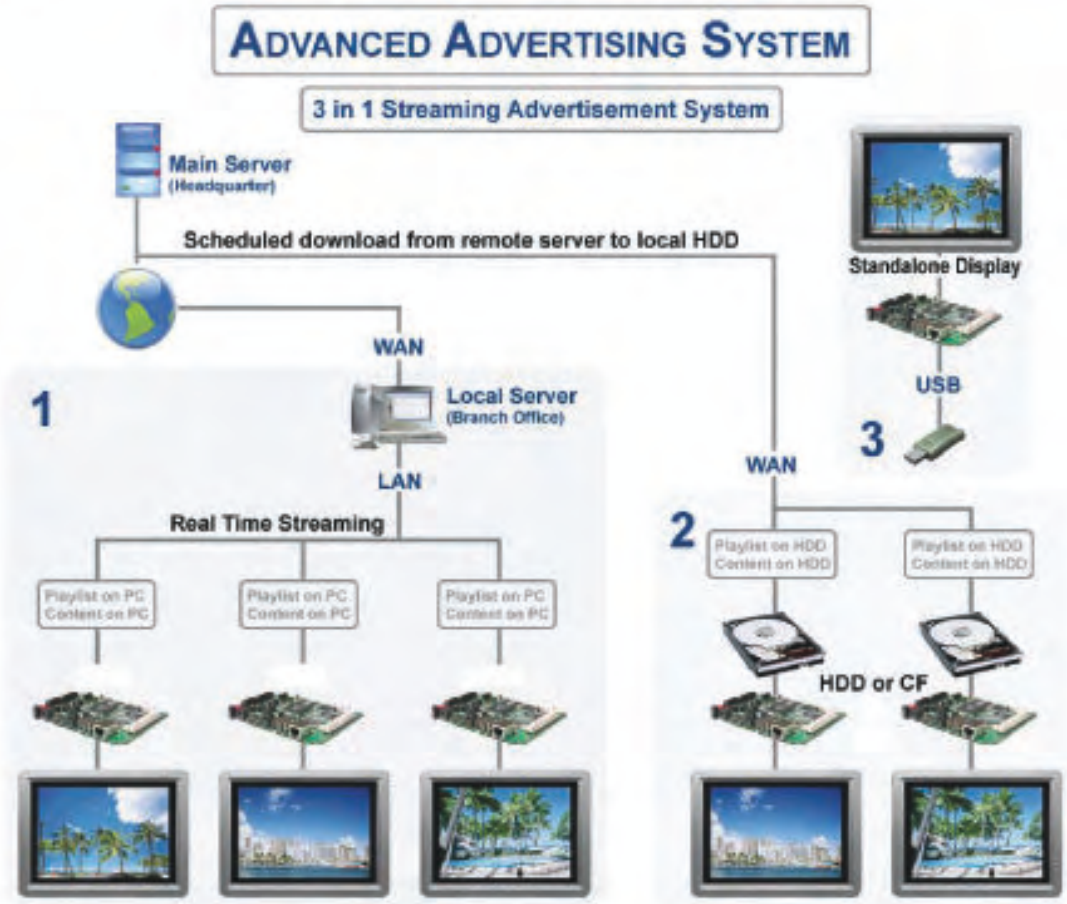
Chapter 1 - Introduction

Specially designed as an affordable yet advanced advertisement solution, the DS5 offers an array of new and unique features. Small footprint and customisable firmware makes this the ideal solution for networked advertisement displays and other broadcasts. The DS5 is a flexible device in that it can be used in conjunction with or without internal storage media. The following illustration shows three of the possible set-up scenarios for the device.



1 - The DS5 is used without internal storage. The content is stored on a PC at the same location and data is accessed over the local area network (LAN).

2 - A hard drive or CF card is installed and data is stored on the DS5. Each unit has its own storage but new content can automatically be downloaded at a certain time over the internet (WAN) from a server.

3 - There is no network connection whatsoever. The data is accessed from an USB drive via one of DS5's USB ports.

Note: See Chapter 4 for a detailed explanation on how to set up each of these scenarios.

System Requirements

PC Requirements

- Minimum Intel Processor III 500MHz, 128MB RAM. The faster the processor the better, as more devices can be connected and you will experience better playback.
- Operating System; WinXP Home, WinXP Professional or Windows Vista.
- 10Mbps, 100Mbps or 10/100Mbps Fast Ethernet card, or a USB-to-Ethernet converter equipped PC.

Display Panel Requirements

- Video/Audio input, standard Composite RCA input. For better quality, S-Video or Component input is recommended.
- Optional amplifier with surround speaker system.

Other equipment

- Network switch or router.
- Optional hard drive up to 750GB, CF card or USB drive

Optional Accessories

The DS5 comes without internal drive. For the DS5, you can install either a CF card or a 2.5” IDE hard drive by using the optional CF/2.5” HDD module. With the DS5M you can install a 2.5” or 3.5” SATA HDD. In addition to your DS5 kit, the following cables and modules are available on request:

- VGA AV cable (*15-pin female VGA, left audio RCA, right audio RCA*)
- SCART AV cable *(SCART cable for Europe with RGB suppor*t)
- 802.11b/g Wireless Kit
- 3G USB Kit
- CF card module *(for DS5 only)*
- CF card & 2.5” HDD module *(for DS5 only)*

Package Contents

- DS5 or DS5M
- External Power Adapter
  Input 110/240V auto switching, Output +12V/2A
- Composite, Component and VGA AV cables
- Remote Control
- Manual

Note: Package content may vary, depending on model and vendor.

Detailed View - DS5

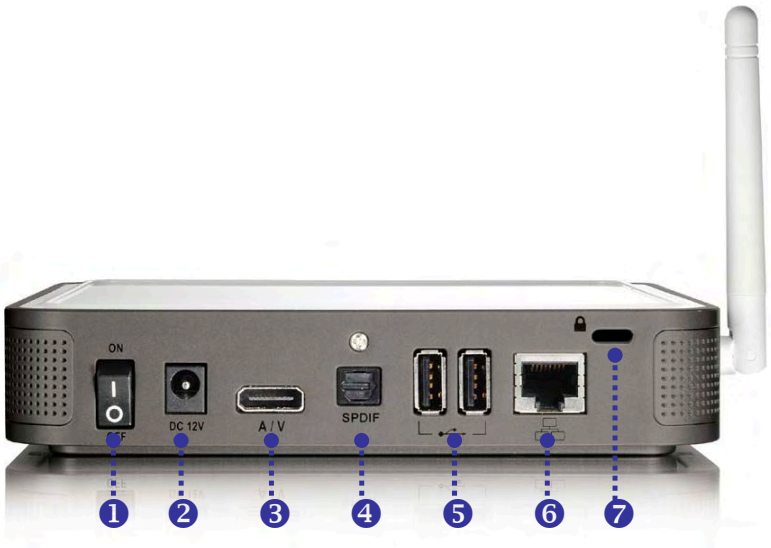
The images below depict the standard DS5 enclosure showing the front view with its LED lights and the rear view with the interface and connections.

Front View

1. 802.11b/g Antenna
2. LAN Access LED
3. Infrared Receiver
4. Power LED

Rear View

1. ON/OFF Switch
2. Power Receptacle
3. A/V multi connector
4. SPDIF audio connector
5. USB 2.0 upstream ports
6. Ethernet RJ-45 port
7. Micro security slot



Note: These images are for reference only. Your model may come in a different colour and without the 802.11b/g antenna.

Detailed View - DS5M

The images below depict the standard DS5M enclosure showing the front view with its LED lights and the rear view with the interface and connections.

Front View

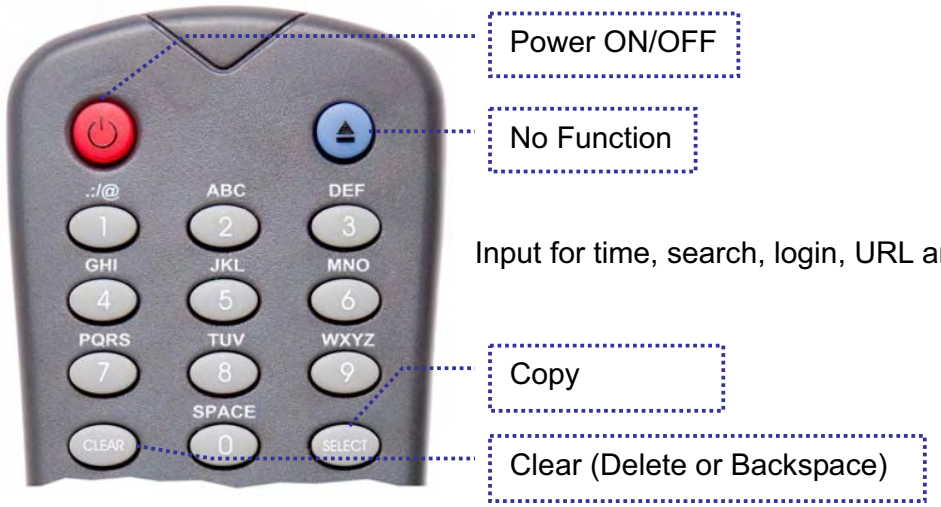
1. 802.11b/g Antenna
2. Infrared Receiver
3. LAN Access LED
4. USB LED
5. Power LED

Rear View

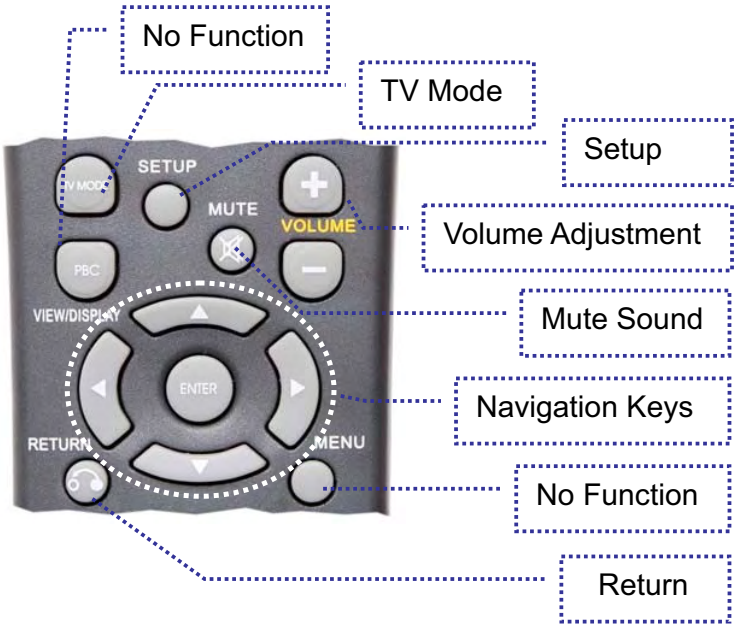
1. ON/OFF Switch
2. Power Receptacle
3. USB 2.0 downstream port
4. A/V multi connector
5. SPDIF audio connector
6. USB 2.0 upstream ports
7. Ethernet RJ-45 port
8. Micro security slot

Note: These images are for reference only. Your model may come in a different colour and without the 802.11b/g antenna.

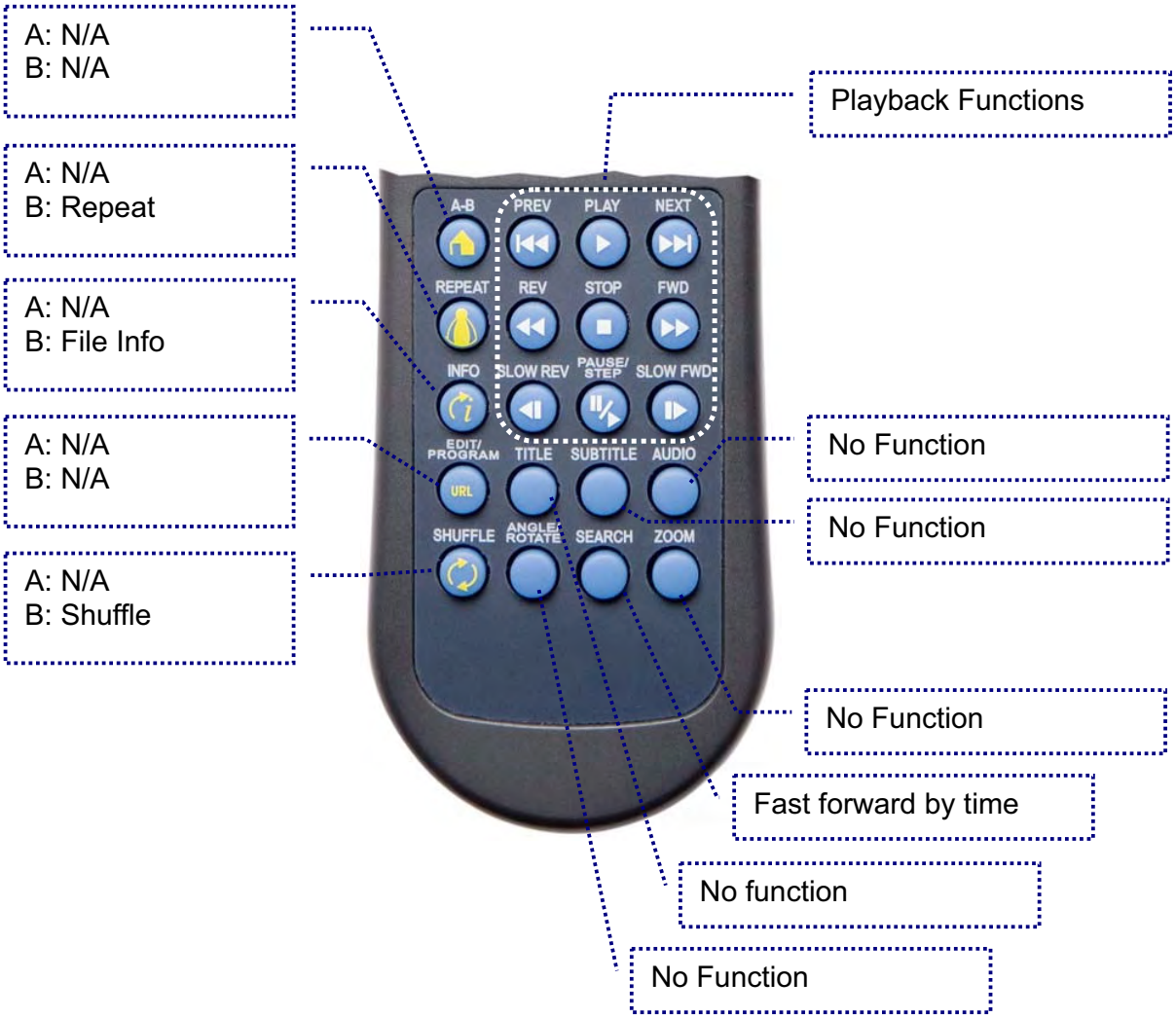
Remote Control



[COPY] Copy the selected file from an external storage media to the local drive.
[CLEAR] Delete a letter/number when entering text or delete the selected file.



[TV MODE] Each time this button is pressed, the video output will change - use this when you only see a blank screen. Once you have a signal on your display, be sure to go to the setup menu and save your settings.
[SETUP] Press this key to enter the setup menu and change the settings and other configuration options for your DS5. During playback, this button can be used to adjust contrast, saturation and brightness.
[VOLUME] Adjust the volume for music and video files.
[RETURN] Go one step back and return to the previous menu.



[REPEAT] Press this button to toggle through the different repeat functions.
[INFO] Press this button to show the file info during playback.
[SHUFFLE] Press this button to turn the shuffle mode ON or OFF.

Note: See Appendix for detailed functions of each key.

Chapter 2 - Hardware Installation

For the download function to work, an internal drive has to be installed. Depending on the model, this can be following:

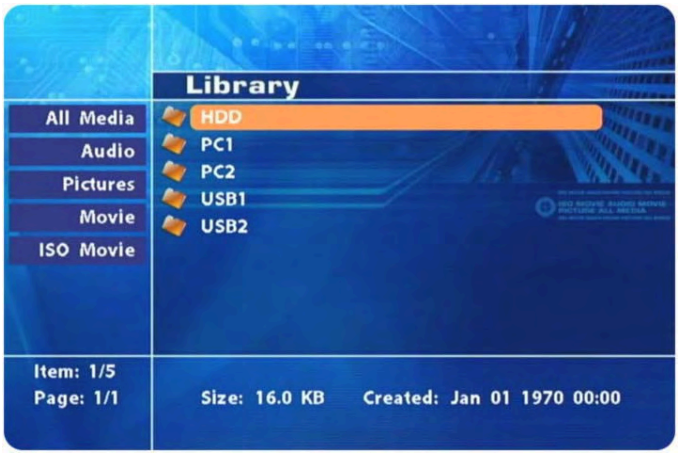
DS5-OE
- 3.5” IDE drive up to 750GB
- 2.5” IDE drive (requires HDD module)
- CF card (requires CF module)

DS5
- 2.5” IDE drive (requires HDD module)
- CF card (requires CF module)

DS5M
- 3.5” SATA drive up to 750GB
- 2.5” SATA drive

Note: The DS5 only supports the FAT32 file system or for CF cards also FAT16. Make sure your hard drive is formatted using FAT32 before you install it. If formatted using NTFS, the DS5 will be able to read from the drive but will not be able to write to it!

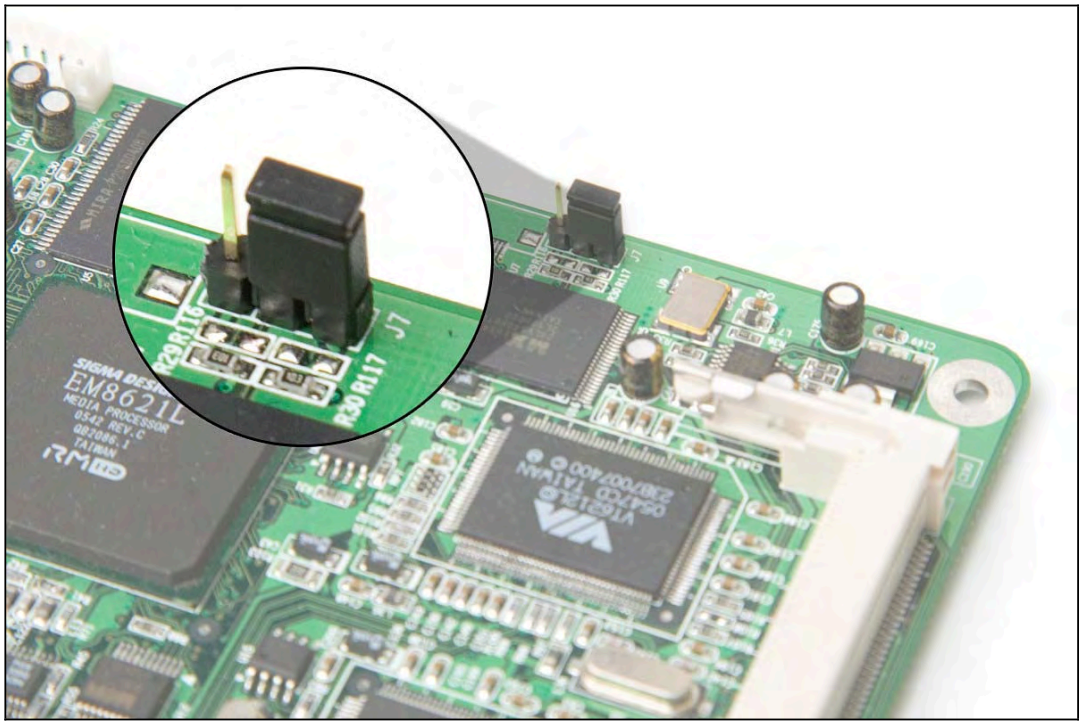
1. Prepare your hard drive and **format it using FAT32**.
2. **Install the drive or CF card** and make sure all cables are connected.
3. Switch the power on your **DS5 to ON**, and wait for the system to boot.
4. If you already have some media files on the drive, you will now be able to access them from the **file library**.
5. If the drive is still empty, use the **File Copy** command in the Setup menu to copy new files from an external USB drive to the internal HDD or CF card.



3.5” HDD Modification - DS5-OE

For the DS5 to recognise the internal drive, the HDD has to spin up and be ready before the system boots. For some hard drives, the spin up time can be quite long and some drives may not be recognised at all.

If this is the case with your drive, adjust the jumper on the DS5-OE bridge board to delay the boot time and leave more time for the drive to spin up. Refer to the following image for the modified jumper setting.



Note: Leave the jumper at its default position for 2.5” drives and CF cards. This modification is only necessary for 3.5” drives with a long spin up time. The DS5-OE supports 3.5” IDE hard drives up to 750GB.

Drive Assembly - DS5

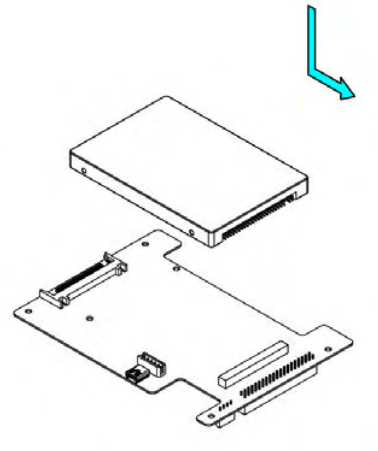
If your setup requires an internal drive, open the case and install a hard drive before turning the unit on.

Note: Format the drive using FAT32 before installing it.

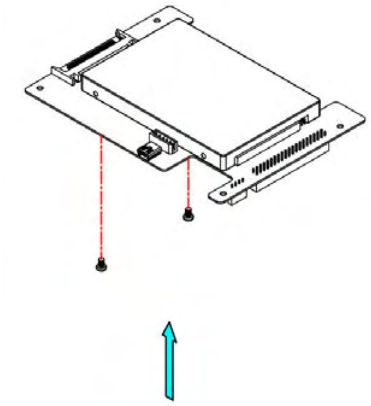
2.5” HDD or CF card

1. Lift the top cover off the body.

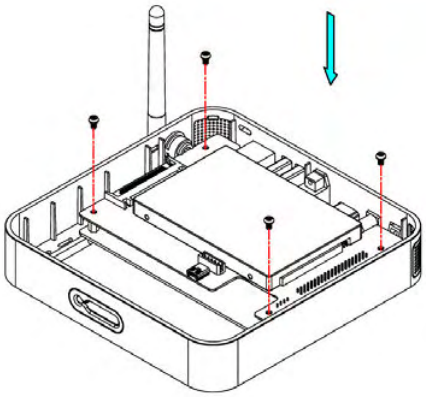
2. Take the drive module and insert your CF card or the 2.5” HDD. **Note: The DS5 can not work with a CF card AND hard drive installed together!**



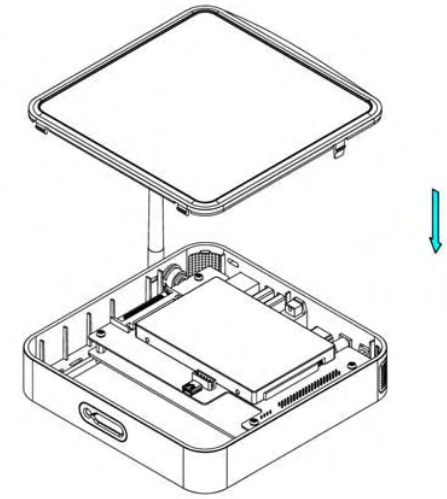
3. If your are installing the 2.5” HDD, mount it with two screws from beneath.



4. Align the drive module with your DS5 and push it lightly into place, so that the connector from your module fits into the IDE connector on the DS5 bridge board. Mount it with the 4 screws as seen in the illustration below.



5. Align the top cover with the body and push lightly into place.



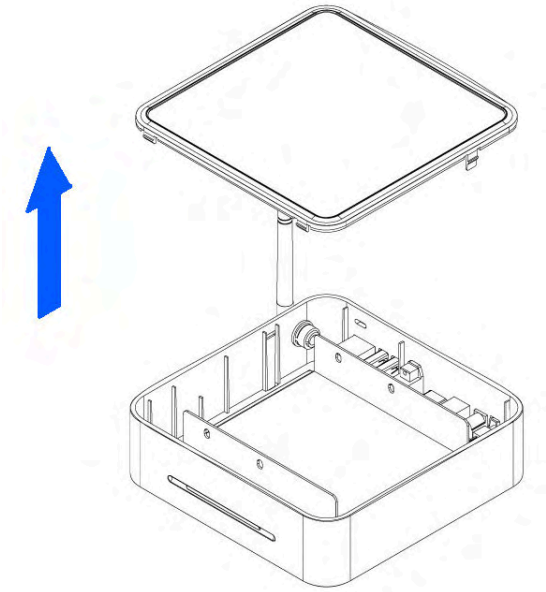
Note: Be careful not to damage any cables or components during the installation!

Drive Assembly - DS5M

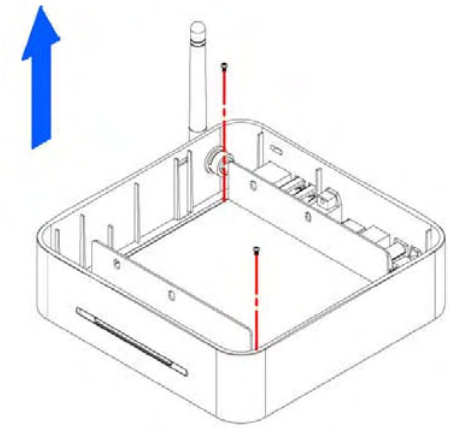
If your setup requires an internal drive, open the case and install a hard drive before turning the unit on.

2.5” HDD

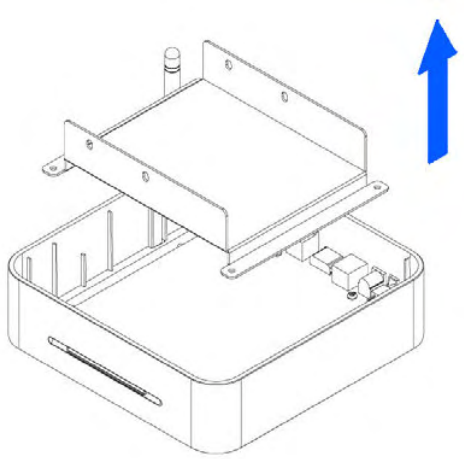
1. Lift the top cover off the body. If it’s already locked in place, push it upwards with a thin and small item through the opening at the bottom.



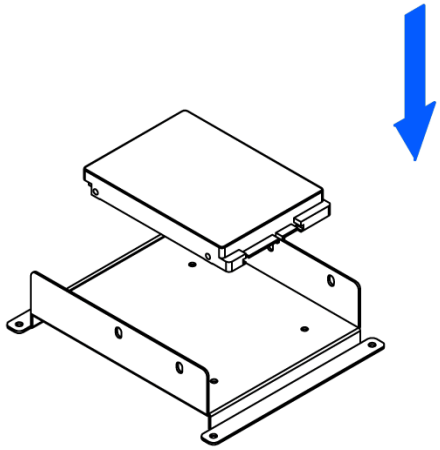
2. Remove the screws which are holding the aluminium frame in place.



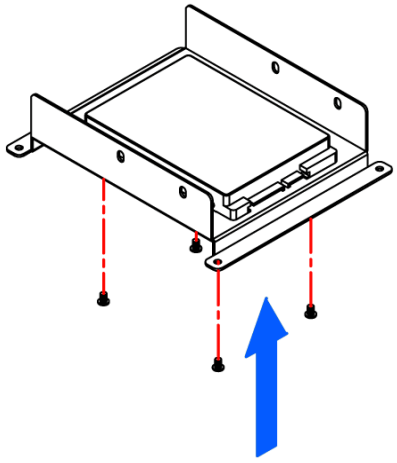
3. Lift the frame out of the plastic casing.



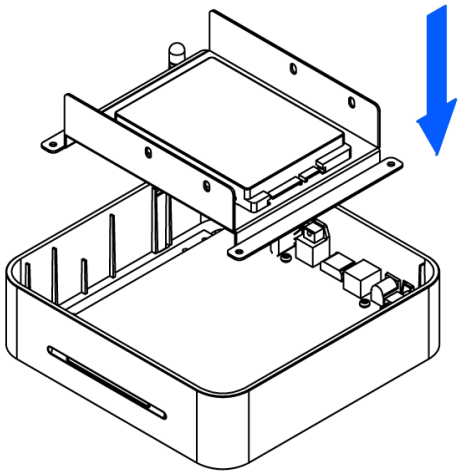
4. Align the screw threads of the hard drive with the holes in the framing and place it in the frame.



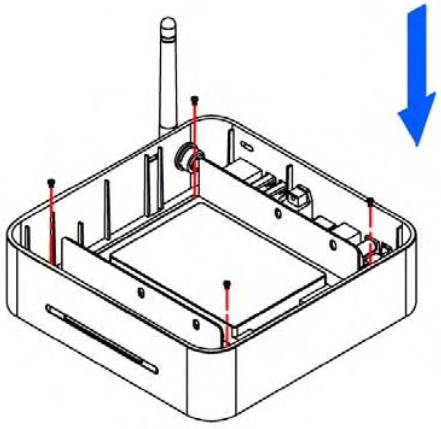
5. Fasten the screws from the bottom to mount the drive to the framing.



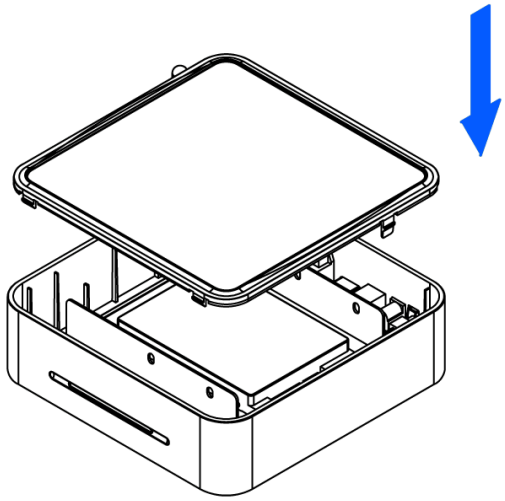
6. Place the assembled drive back in the plastic framing and connect the cables.



7. Mount it on the heat sink by fastening the screws.



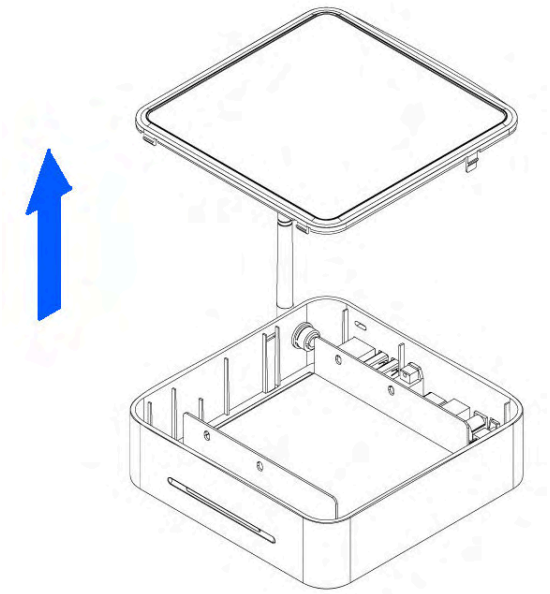
8. Align the top cover with the body and push lightly into place.



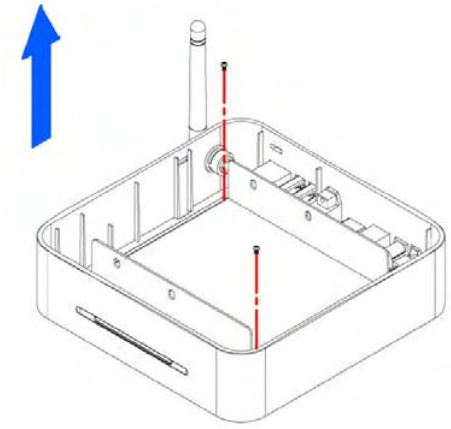
Note: Be careful not to damage any cables or components during the installation! The additional metal sheet is not required for the 2.5” HDD. Store it in a dry place until you install a 3.5” HDD.

3.5” HDD

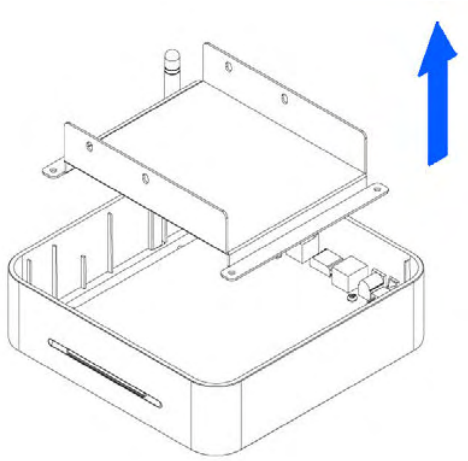
1. Lift the top cover off the body. If it’s already locked in place, push it upwards with a thin and small item through the opening at the bottom.



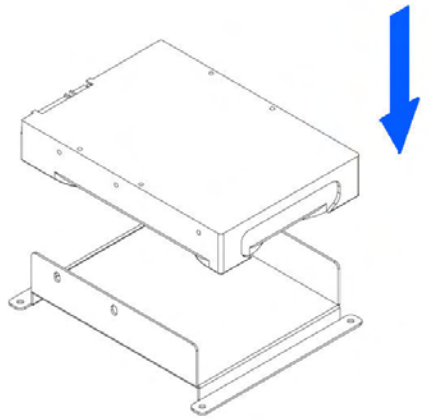
2. Remove the screws which are holding the aluminium frame in place.



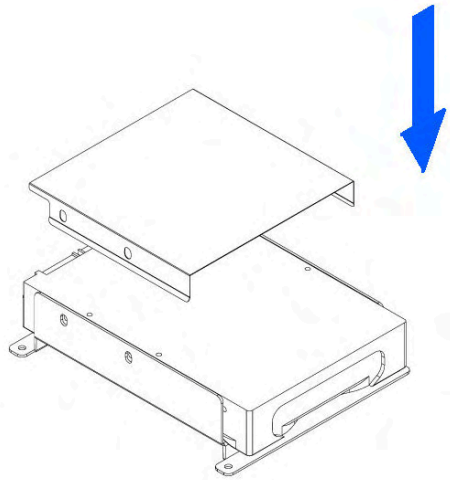
3. Lift the frame out of the plastic casing.



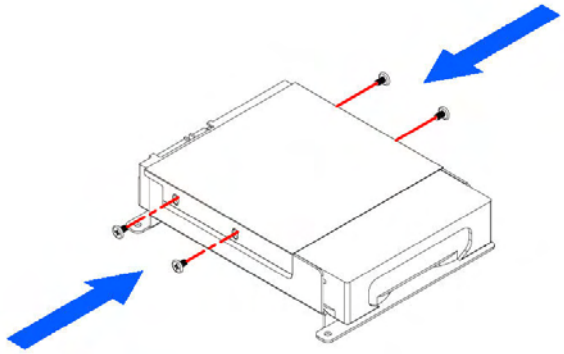
4. Align the screw threads of the hard drive with the holes in the framing and place it upside down in the frame.



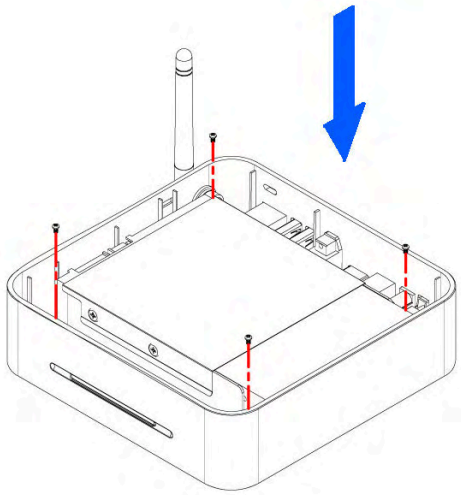
5. Place the metal sheet cover over the drive and align it with the holes of the framing.



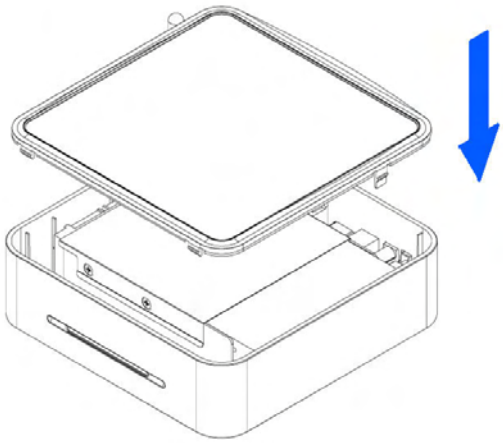
6. Fasten the screws from the side.



7. Place the assembled drive back in the plastic framing, connect the cables and mount it on the heat sink by fastening the screws.



8. Align the top cover with the body and push lightly into place.

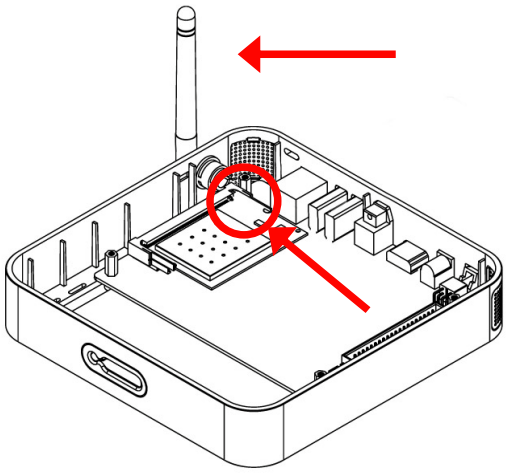


Note: Be careful not to damage any cables or components during the installation!

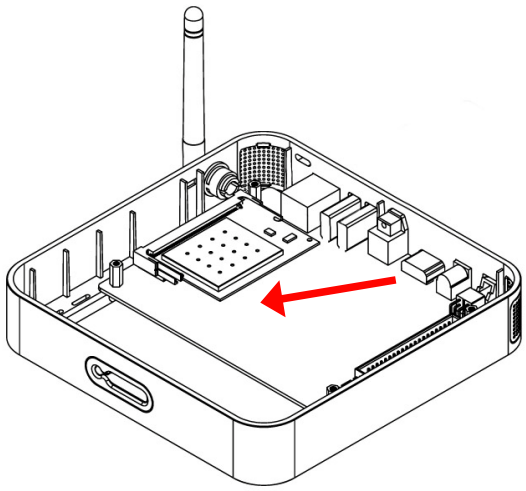
Wireless Kit Assembly - DS5

If your DS5 did not come with the wireless kit and you would like to install this module yourself, simply follow these instructions:

1. **Insert the antenna** into the slot opening ensuring it is pointing upright.
2. **Place the lock** on the internal end of the antenna to secure it to the unit.



3. **Fasten the antenna** cable to the “MAIN” connector on the PCI module.
4. **Insert the PCI module** in the PCI slot at a slight angle.
5. Gently press down on the PCI module until the side clasps lock it into place.

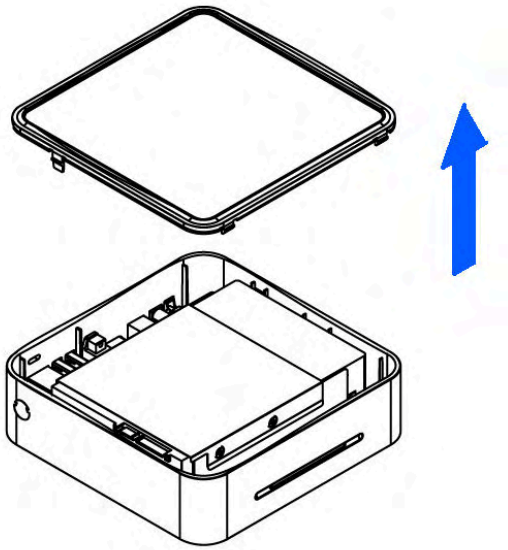


Remark: Only use the wireless kit designed for the DS5. We do not support 3rd party PCI cards and installation of any other components will void the warranty.

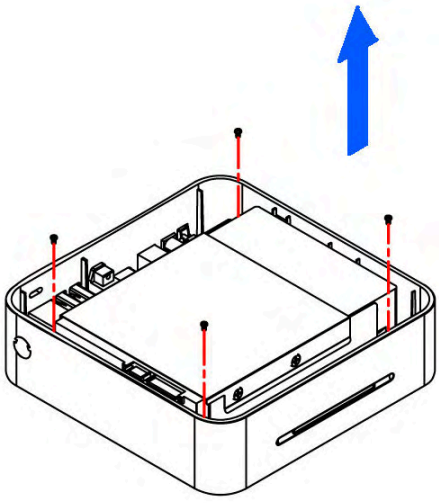
Wireless Kit Assembly - DS5M

If your DS5M did not come with the wireless kit and you would like to install this module yourself, simply follow these instructions:

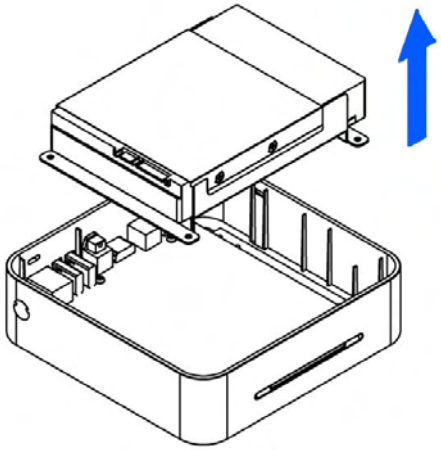
1. Lift the top cover off the body. Push it upwards with a thin and small item through the opening at the bottom.



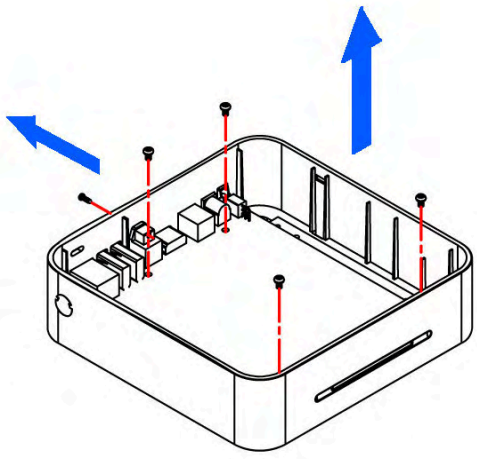
2. Remove the screws which are holding the aluminium frame in place.



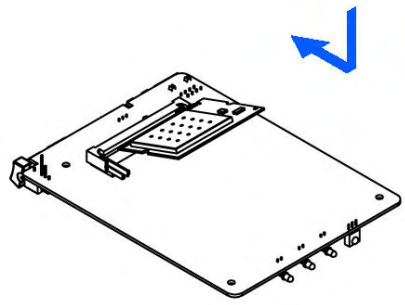
3. Disconnect the cables, then lift the frame and the hard drive out of the plastic casing.



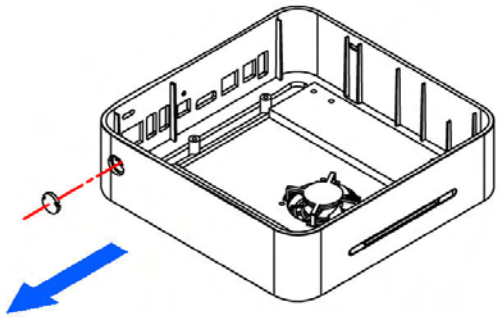
4. Remove the screws which are used to mount the bridge board to the heat sink and lift the board out of the casing.



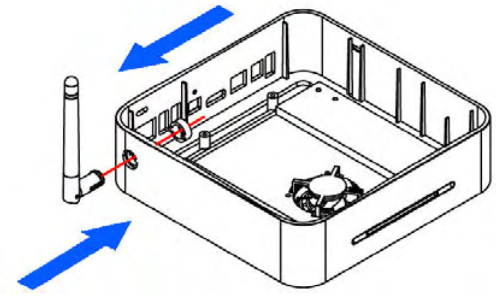
5. Turn around the bridge board, insert the PCI module in the PCI slot on a slight angle and gently press down on the PCI module till the side clasps lock it into place.



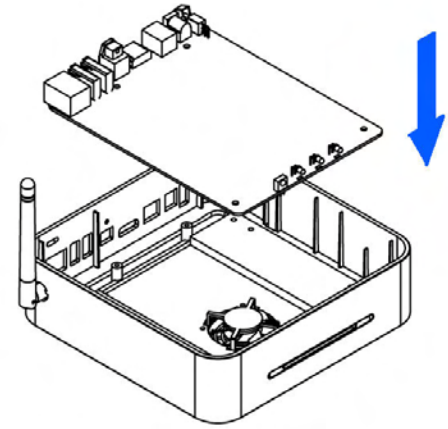
6. Remove the plastic cap for the antenna opening.



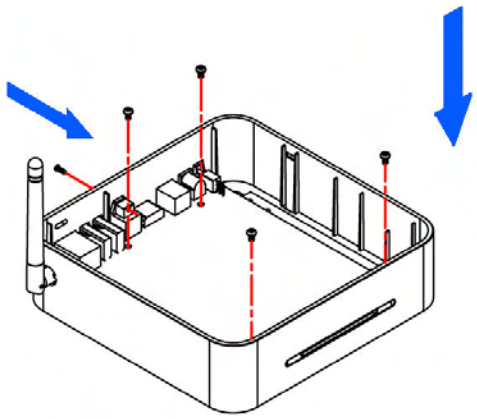
7. Insert the antenna into the slot opening ensuring it is pointing upright and then place the lock on the internal end of the antenna to secure it to the unit.



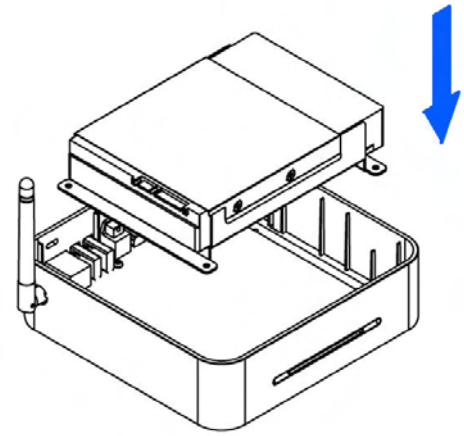
8. Align the bridge board with the body and connect the antenna cable end to the “main” connector on the PCI module.



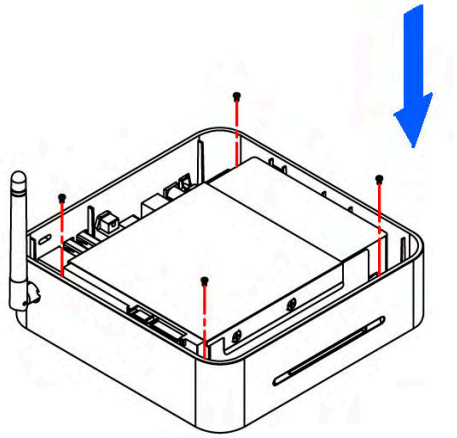
9. Fasten the screws to mount the bridge board to the heat sink.



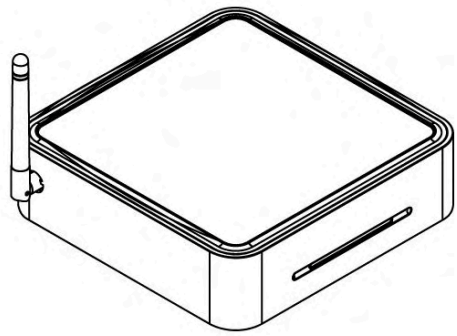
10. Place the assembled drive back in the plastic framing and connect the cables.



11. Fasten the screws.



12. Align the top cover with the body and push lightly into place.



Note: Be careful not to damage any cables or components during the installation!

Remark: Only use the wireless kit designed for the DS5. We do not support 3rd party PCI cards and installation of any other components will void the warranty.

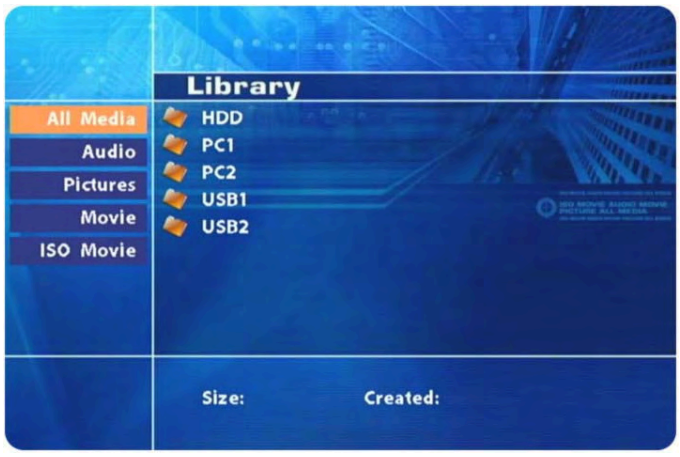
Chapter 3 - Software Configuration

In following chapters, by DS5 we are referring to all of the models, as the software is identical. To configure your DS5, connect it to your TV or any other display. Turn on the device and wait for it to boot. Depending on the drive installed and the network, this could take between 10 and 30 seconds.

Note: The DS5 will only look for new network devices during boot up. If you change any of the network related settings, restart the device to ensure the new setup takes effect.

1. After the system has booted, you will see the **main screen** on your screen. To access your files, select the file type or use All Media and press Enter.

2. Select the directory where you files are stored and press Enter to **browse for your files**. HDD is the local drive or CF card, PC1/2 are links to a local network disk or computer and USB1/2 are the drives attached to the USB ports.



3. To enter the setup menu, press the **SETUP button** on your remote control.

Network Category

In this category, you can configure how the DS5 is connected to the local network and set up the links to a local computer or network disk for PC1/2.

Use the arrow keys on your remote control for navigation and the ENTER button to configure the settings.

[Network Type] Select between Wired and Wireless network connection. For the wireless function, you will need to have the optional 802.11b/g wireless kit installed.

[Automatic IP Address] Choose ON and the DS5 will acquire the IP address automatically at boot up or choose OFF and configure the settings manually. You will be able to enter the IP address, mask, gateway and DNS server.

[IP Address] Displays the current IP address of your DS5. If 0.0.0.0 is shown, your device will not be able to connect to the network. Restart the device or set the IP manually.

[MAC Address] Displays the MAC address of your DS5. This can not be changed.

[SSID] If you are using the wireless connection, this will display your current SSID.

[Link PC1] Path to your remote network storage. Enter the IP address of your computer or network disk and the shared directory. Once this link is set, you can access the files from the file library under PC1.

[Link PC2] Path to your remote network storage. Enter the IP address of your computer or network disk and the shared directory. Once this link is set, you can access the files from the file library under PC2.

Note: You will need to reboot your device after changing any of the above settings.

Misc1 Category

In this category, you can set the time using an NTP server via the internet. Once the time is set, you can configure the playlist, download function and schedule for these functions.

Use the arrow keys on your remote control for navigation and the ENTER button to configure the settings.

[Date Time] Displays current date and time. If the time or date is not correct, make sure you have selected the correct time zone, choose another NTP server from list and ensure that your internet connection is working. After changing the NTP server, reboot your device.

[Time Zone] Select the time zone of your country. If you do not know the time offset, refer to your PC clock. Double click on the time in the taskbar and go to Time Zone. Select your country from the list and you will see the corresponding time offset.

[NTP Server] Select one of the NTP servers from the list or enter the IP address manually to synchronise the time via the internet. Turn it OFF if you don't need this function.

[Play List] To enable this function, turn it ON. Once it is enabled, you can set the path to your playlist and enter a time for the playback to start. If you set the time to 99:99, the playback will start immediately after the unit is turned on.

[Download List] To enable this function, select either Foreground or Background. Foreground will display the download progress, whereas Background will hide it. Once it is enabled, you can set the path to your download list on a remote server and enter a time for the download to start. To use this function, you need an internal drive or CF card, as well as a connection to the internet.

Note: If the NTP server is enabled, the time will be synchronised via the internet at boot up. Make sure the internet connection works, or otherwise the DS5 will reset its time and start from 09:00.

Misc2 Category

In this category, you can manage your files using the copy and erase functions and set the playback mode for automated playback.

Use the arrow keys on your remote control for navigation and press the ENTER button to configure the settings.

[File Copy] Use this to easily and quickly copy new files to or from your local drive. This will copy all files found in the root directory of either your local drive or the remote location but does not include any sub-folders. Existing files with the same name will be overwritten.

[File Erase] This function can be used to erase all data on the local drive or one of the attached USB drives.

[Setup Value] Use this function to reset all settings to their factory default value.

[Play Mode] Select your preferred play mode from 4 different types:
Standard - Default setting for standard media player with user input via remote control.
Repeat - Automatically plays and repeats all files stored in the root directory at boot up.
Manual - Plays title file at boot up as well as after user input via numeric buttons 000-999.
Standby - Plays title file at boot up and then waits for further user input (buttons 000-999).

[Remote Command Path] Define the location that the DS5 should monitor for remote commands. Set it to HDD if you intend to use the Configuration Tool or TFTP.

[Auto ON/OFF] Turning this function ON allows you to set a time for the unit to automatically turn ON and also a time for it to turn OFF again.

Misc3 Category

In this category, you can disable the onscreen messages (OSD) and configure the options for the scrolling text message.

Use the arrow keys on your remote control for navigation and the ENTER button to configure the settings.

[OSD] Option to enable or disable the on-screen messages (OSD). By default, this is enabled but if you prefer not seeing the OSD messages during playback, turn it OFF here.

[Scrolling Text] Turn the scrolling text message ON or OFF. When turned on, a text file “message.txt” has to be placed on the local hard drive for it to display the message.

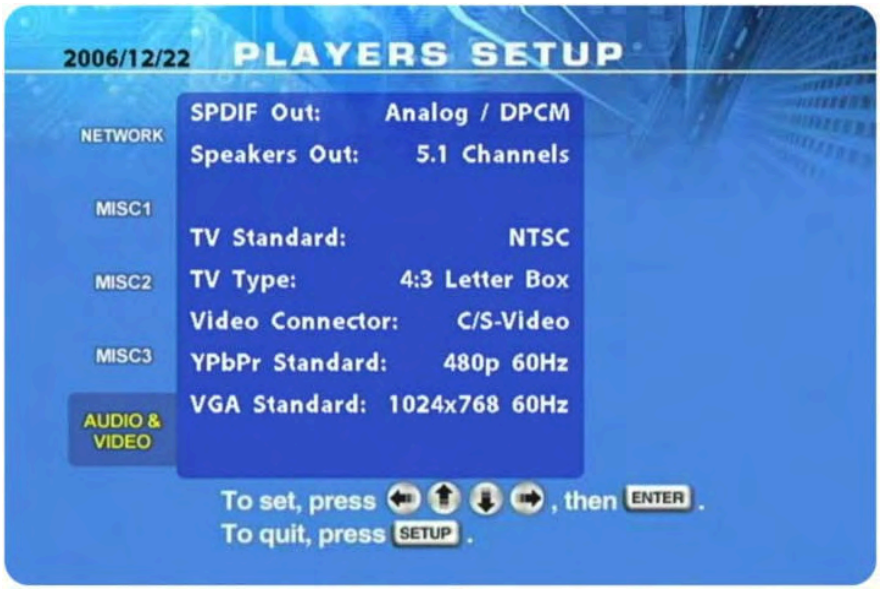
[Scrolling Text Speed] Set the scrolling speed from 1-10, where 1 is the slowest and 10 the fastest.

[Color] Choose between several different colour schemes for the font and background.

Audio & Video Category

In this category, you can configure the audio and video output of your DS5.

Use the arrow keys on your remote control for navigation and the ENTER button to configure the settings.



[SPDIF] Depending on the audio cable you are using, set this to Analog if you are using the simple RCA left/right audio cables or to Digital if you are using the optical SPDIF cable.

[Speakers] Depending on your speaker set up, set this to 2 Channels if you are only using 2 speakers or to 5.1 Channels if you are using digital audio with 5 speakers and surround sound.

[TV Standard] Select your TV system from the list. You can choose either NTSC or PAL.

[TV Type] Select the aspect ratio for your TV. You can choose from 4:3 Letter Box, 4:3 Pan-Scan and 16:9.

[Video Connector] Depending on which A/V cable you are using, select the corresponding connection from the list. For the standard Composite cable, choose C/S-Video, for the Component cable, choose YPbPr and for the VGA cable, choose VGA.

[YPbPr Standard] Select the resolution and frequency of your TV display. The range includes resolutions from 480p to 1080i with a frequency of either 50Hz or 60Hz.

[VGA Standard] Select the resolution and frequency of your display or monitor. The VGA output is using 60Hz and offers multiple resolutions from 640x480 to 1920x1200.

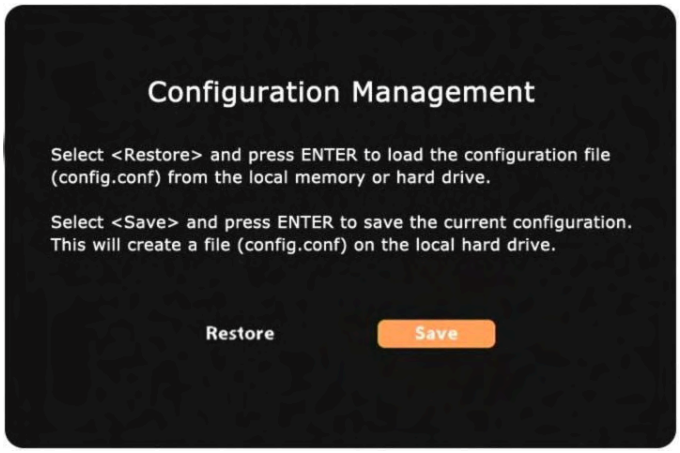
Note: If your display is blank and you can not see the DS5 menu, press the TV Mode button on your remote control to toggle between the different video outputs. Once you can see the main screen, go to the setup menu and save your video output.

Configuration File

Instead of entering all the settings manually via remote control, you can load the configurations from a text file. To create it, either do so manually, using the Configuration Tool on the PC or save the current settings and then modify the text file.

To save the current settings, do following:

1. **Turn on your DS5** and wait for it to boot.
2. Turn it off using the **power button** on the remote control.
3. Press following buttons in order to enter the configuration menu: **1111**
4. Select **SAVE** and press the ENTER key on your remote control. The settings will be stored in a text file (config.conf) on the local drive.


Configuration Management
Select <Restore> and press ENTER to load the configuration file (config.conf) from the local memory or hard drive.
Select <Save> and press ENTER to save the current configuration. This will create a file (config.conf) on the local hard drive.
Restore
Save

5. Use TFTP to download the config.conf file to your computer:
   tftp -i [IP address of your DS5] GET /config.conf C:\config.conf

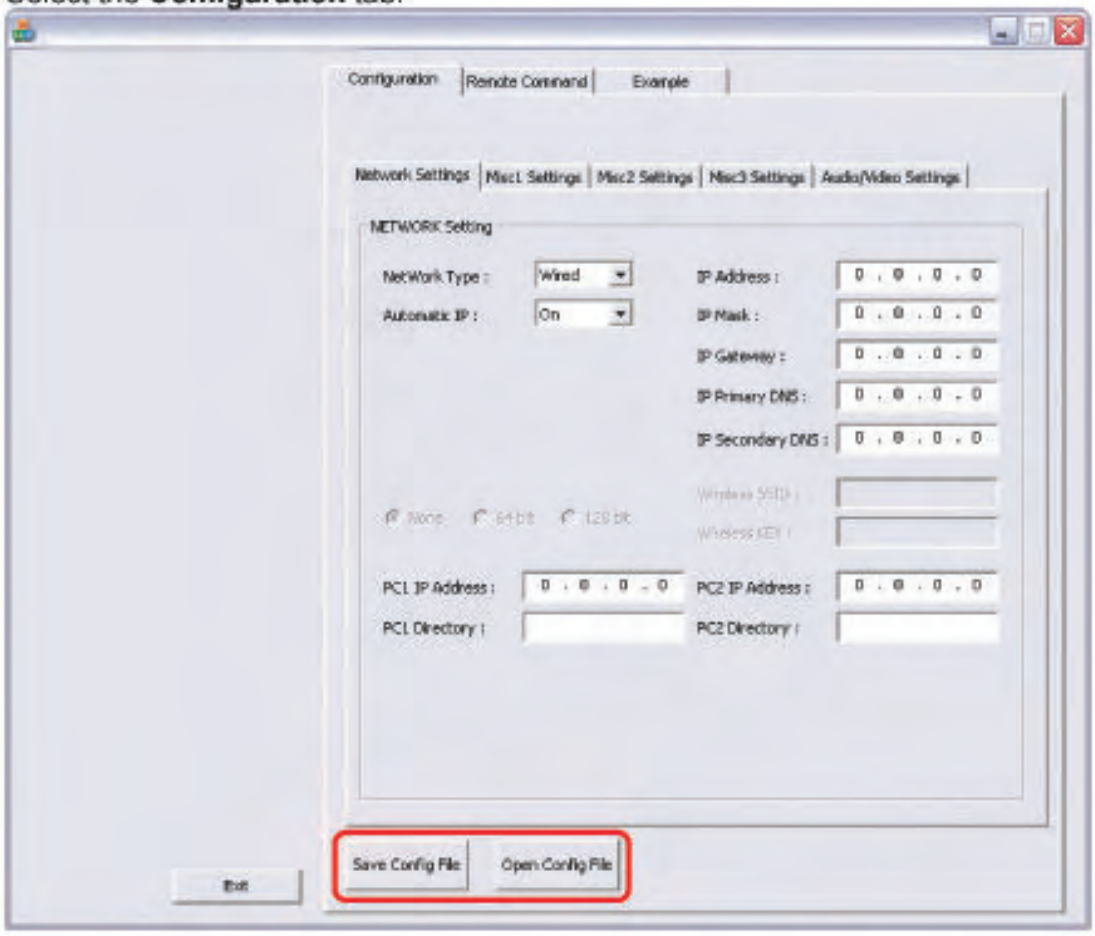
To load the new settings, do following:

1. **Turn on your DS5** and wait for it to boot.
2. Use TFTP to upload the config.conf file to your DS5:
   tftp -i [IP address of your DS5] PUT C:\config.conf /config.conf
3. Turn off the DS5 using the **power button** on the remote control.
4. Press following buttons in order to enter the configuration menu: **1111**
5. Select **RESTORE** and press the ENTER key on your remote control to load the settings.
6. The unit will automatically **reboot** after the new settings have been uploaded.

Note: If you do not have a local drive installed on the DS5, the config.conf file will be stored in the memory. If you turn off the power using the hardware switch on the DS5, this file will be lost, so transfer or upload it BEFORE you turn off the unit.

Configuration Tool
The easiest way to modify and create the config.conf file is to use the Configuration Tool on the PC.

1. Start the **configuration tool**.
2. Select the **Configuration** tab.



3. Open an existing config.conf file or create a new one by changing and **adjusting the settings**, then **save the config file**. For organisational purposes, you can use any file name you like but when you want to upload it to your DS5, the file name has to be config.conf.

Note: This utility is only available for the Windows platform. If you are working on a Mac platform, please edit and create the config.conf file manually with a text editor.

Configuration Structure

The config.conf file can also be edited manually with a text editor. Leave the settings empty if you do not want to set it. For the structure, please refer to following example:

[NETWORK SETTING]
[NetWork Type]=Wired
[Automatic IP]=Off
[IP Address]=11.128.229.257
[IP Mask]=255.255.255.0
[IP Gateway]=11.128.229.240
[IP Primary DNS]=11.128.229.1
[IP Secondary DNS]=
[Wireless SSID]=
[Wireless KEY]=
[PC1 Address]=11.128.229.133
[PC1 Dir]=public
[PC2 Address]=
[PC2 Dir]=

[MISC1]
[Time Zone]=UTC+8
[NTP Server]=Off
[Play List]=Off
[Play List Path]=HDD
[Play List Time]=00:00
[Download List]=Off
[Download Path]=http://62.26.333.66/test/ds5/
[Download Time]=18:00

[MISC2]
[Play Mode]=Standard
[Remote Command Path]=PC1
[Auto On/Off]=Off
[Power Off Time]=18:20
[Power On Time]=09:00

[MISC3]
[OSD]=Off
[Scrolling Text]=Off
[Scrolling Text Speed]=8
[Scrolling Text Color=White on Orange

[AUDIO & VIDEO]
[SPDIF Out]=Analog/DPCM
[Speakers Out]=5.1 Channels
[TV Standard]=NTSC
[TV Type]=4:3 Letter Box
[Video Connector]=C/S-Video
[YPbPr Standard]=480p 60Hz
[VGA Standard]=640x480 60Hz

Configuration Values
Following are the available settings for the config.conf file:

Setup Menu	config.conf	Value		
Network Type:	[NetWork Type]	**Wired**	**Wireless**	
Automatic IP Address:	[Automatic IP]	**On**	**Off**	
IP Address:	[IP Address]	**e.g.**	11.128.229.257	
Mask:	[IP Mask]	**e.g.**	255.255.255.0	
Gateway:	[IP Gateway]	**e.g.**	11.128.229.240	
Primary DNS :	[IP Primary DNS]	**e.g.**	11.128.229.1	
Secondary DNS:	[IP Secondary DNS]	**e.g.**	11.128.229.1	
SSID:	[Wireless SSID]	**e.g.**	W_HD	
KEY:	[Wireless KEY]	**e.g.**		
PC1 IP Address:	[PC1 Address]	**e.g.**	11.128.229.133	
PC1 Directory:	[PC1 Dir]	**e.g.**	public	
PC2 IP Address:	[PC2 Address]	**e.g.**	11.128.229.134	
PC2 Directory:	[PC2 Dir]	**e.g.**	test	
Time Zone:	[Time Zone]	**UTC-12**	**UTC-11**	**UTC-10**
		UTC-9	**UTC-8**	**UTC-7**
		UTC-6	**UTC-5**	**UTC-4**
		UTC-3	**UTC-2**	**UTC-1**
		UTC	**UTC+1**	**UTC+2**
		UTC+3	**UTC+4**	**UTC+5**
		UTC+6	**UTC+7**	**UTC+8**
		UTC+9	**UTC+10**	**URC+11**
		UTC+12		
NTP Server:	[NTP Server]	**On**	**Off**	
Play List:	[Play List]	**On**	**Off**	
Play List Path :	[Play List Path]	**HDD**	**PC1**	**PC2**
		USB1	**USB2**	
Play List Schedule:	[Play List Time]	**e.g.**	00:00	
Download List:	[Download List]	**Off**	**Foreground**	**Foreground/Skip**
			Background	**Background/Skip**
Download Path:	[Download Path]	**e.g.**	http://62.26.333.66/test/dS5/	
Download Schedule:	[Download Time]	**e.g.**	18:00	

Play Mode:	[Play Mode]	**Standard**	**Repeat**	**Manual**	**Standby**
Remote Command Path:	[Remote Command Path]	**HDD**	**PC1**	**PC2**	
Auto On/Off:	[Auto On/Off]	**On**	**Off**		
Power Off Time:	[Power Off Time]	**e.g.** 18:20			
Power On Time:	[Power On Time]	**e.g.** 09:00			
OSD:	[OSD]	**On**	**Off**		
Scrolling Text:	[Scrolling Text]	**On**	**Off**		
Scrolling Text Speed:	[Scrolling Text Speed]	**e.g. from 1-10**	5		
Color:	[Scrolling Text Color]	**White on Orange**	**White on Red**		
		White on Blue	**White on Black**		
		Black on White			
SPDIF Out:	[SPDIF Out]	**Analog/DPCM**	**Encoded Digital**		
Speakers Out:	[Speakers Out]	**2 Channels**	**5.1 Channels**		
TV Standard:	[TV Standard]	**NTSC**	**PAL**		
TV Type:	[TV Type]	**3:4 Letter Box**	**3:4 Pan-Scan**	**16:9**	
Video Connector:	[Video Connector]	**C/S-Video**	**YPbPr**	**VGA**	
YPbPr Standard:	[YPbPr Standard]	**480p 60Hz**	**576p 50Hz**	**720p 60Hz**	
		720p 50Hz	**1080i 60Hz**	**1080i 60Hz**	
VGA Standard:	[VGA Standard]	**640x480 60Hz**	**800x600 60Hz**	**1024x768 60Hz**	
		1280x768 60Hz	**1280x1024 60Hz**	**1360x769 60Hz**	
		1920x1200 60Hz			

Tip: To upload settings when the internet connection is not yet set up, use the copy function. Store the config.conf file on a USB drive, connect it to the DS5, go to the SETUP menu and select Copy from USB to HDD. Once the file(s) have been copied, turn off the unit via remote control and press 1111 to enter the Configuration Management wizard. Load the config.conf file, then wait for it to reboot and you are done.

Firmware Update

Your current firmware date can be seen once you enter the setup menu. The date will be displayed in the top left corner. Periodically, the DS5 firmware will be upgraded to offer new functions and improvements. You will find it on your vendor's website. Download the latest version, store it on a USB drive and start the upgrade procedure as follows.

1. **Download the latest firmware**, save it on your local disk and unzip it.
2. **Store the BIN file on a USB disk** in the root directory (formatted using FAT32).
3. **Connect the USB disk** to your DS5 and turn both devices ON.
4. Once ready, make sure the USB disk has been recognised (you won't see the BIN file in the library but you can see the drive or other files).
5. Press the **power button** on your remote control to turn the DS5 OFF.
6. Press the following number keys in order to enter the firmware update page: **1234**
7. Select "**Check**" and press Enter to search for the new firmware file. It will display a message when the file has been found.
8. Select "**Update**" and press Enter to start the update procedure. This might take several minutes and the screen may flicker a few times. DO NOT turn off the unit or disrupt the upgrade process in any other way.

Firmware Update
Select << Check >> and press Enter to search for the new firmware.
New firmware is found. --> /USB1/mpt0808.bin
Select << Update >> and press Enter to start the update process .
Check
Update

9. Once the update process shows 100%, wait a few more seconds, then **reboot** the device by turning off the power switch and turn it back on a few seconds later.
10. Remove the USB disk and erase the firmware. **Done!**

WARNING: NEVER TURN OFF YOUR UNIT DURING THE FIRMWARE UPDATE PROCEDURE AS THIS MAY DAMAGE YOUR DEVICE. IF FOR ANY REASONS (E.G. POWER SUPPLY FAILURE DURING FIRMWARE UPDATE) THE PROCEDURE FAILS, YOU MAY NOT BE ABLE TO OPERATE YOUR DEVICE ANY MORE.

Chapter 4 - Playback

There are three basic playback scenarios for the DS5 as seen in the introductions. For the overview, please refer to the first section of Chapter 1. The following are detailed explanations and step by step instructions on how to set the device up.

If you jumped here directly and skipped the previous parts of the manual, we strongly recommend reading page 3. Be sure to read Chapter 3 if you have not yet set up the device.

Mode 1

The DS5 is used without internal storage with the content stored on a PC at the same location and data is accessed over the local area network (LAN). The remote storage space could be a PC running WinXP or it could be a network disk as an example.

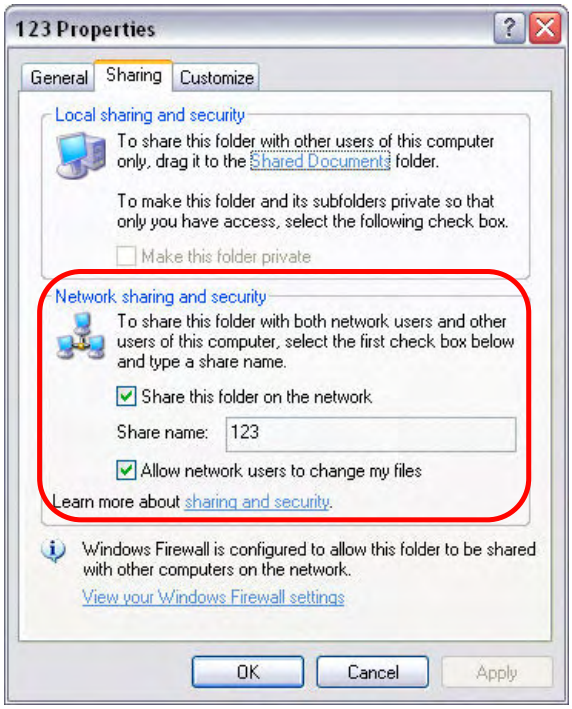
Advantage: No local hard drive is required and the data is easily maintained or updated by a system administrator with access to that local computer.

Disadvantage: Depending on the bandwidth and the specifications of the computer, this set up might be limited to only 2-3 displays. If the computer crashes or the network is unstable, playback will suffer or not work at all.

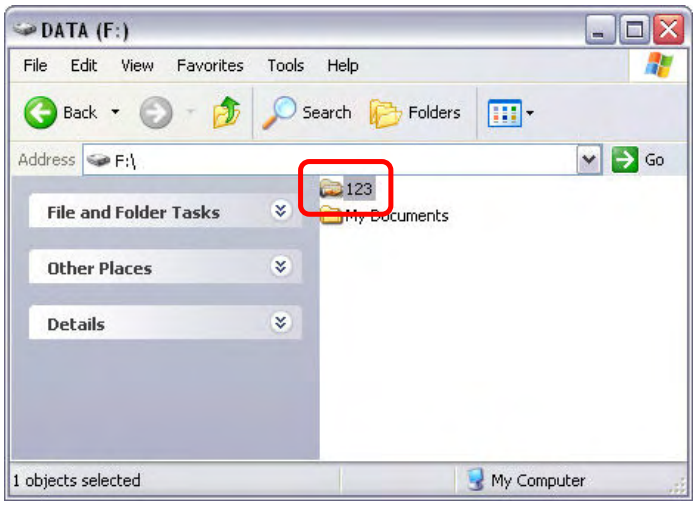
Shared Folder on WinXP

To access a shared folder on a local PC, you will need a computer which is connected to the same local network as your DS5. The guest account has to be enabled for the DS5 to access the computer.

1. Set up a **shared folder** on your PC. To do so, right click on a folder, go to Properties and select the Sharing tab. Enable sharing for this folder and apply the settings.


123 Properties
General
Sharing
Customize
Local sharing and security
To share this folder with other users of this computer only, drag it to the Shared Documents folder.
To make this folder and its subfolders private so that only you have access, select the following check box.
Make this folder private
Network sharing and security
To share this folder with both network users and other users of this computer, select the first check box below and type a share name.
Share this folder on the network
Share name: 123
Allow network users to change my files
Learn more about sharing and security.
Windows Firewall is configured to allow this folder to be shared with other computers on the network.
View your Windows Firewall settings
OK
Cancel
Apply

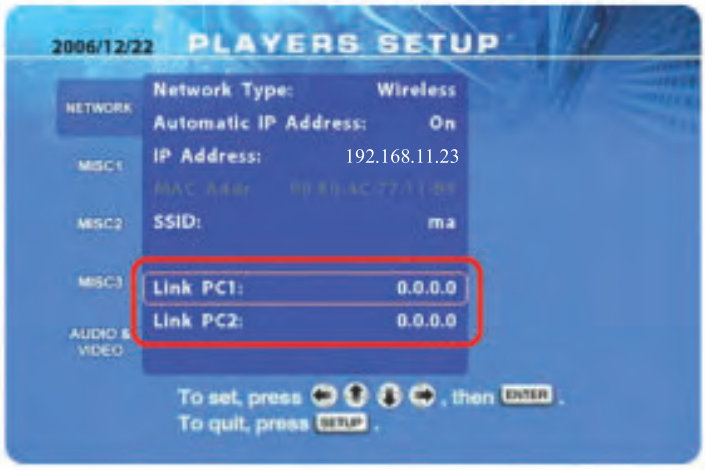
2. Your folder should now have a new icon with a picture resembling a hand.



3. Make sure your **Firewall** is set up to allow access to the shared folder.

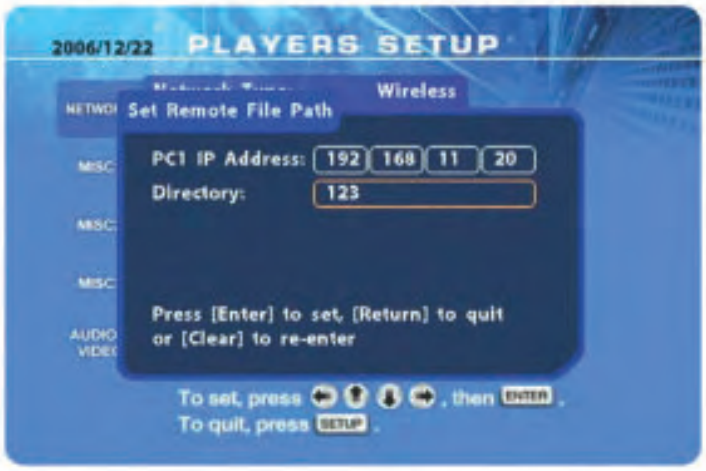
4. On DS5, press **SETUP** on your remote control to enter DS5's setup menu.

5. In the **NETWORK category**, you have two locations (**PC1 & PC2**) where you can add the shared folders. Press Enter to setup the file path.



6. Enter the **IP address of your computer** plus the directory and save it. As seen in step 1, the name for the shared folder in this example is 123, so the input for the **directory path** here would therefore be 123.

   Note: Passwords are not supported, so to access the PC, a guest account has to be enabled.



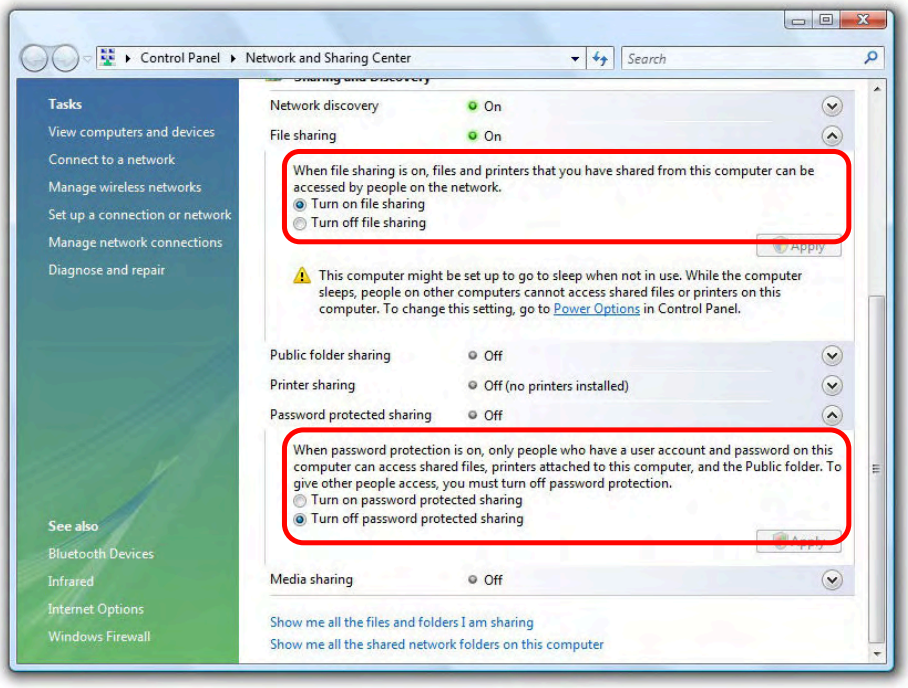
7. In order for these changes to take effect, **reboot** the device immediately.

8. After rebooting, you can access the remote folder through your local network. Go to the **file library** and access the files in **PC1 or PC2**.

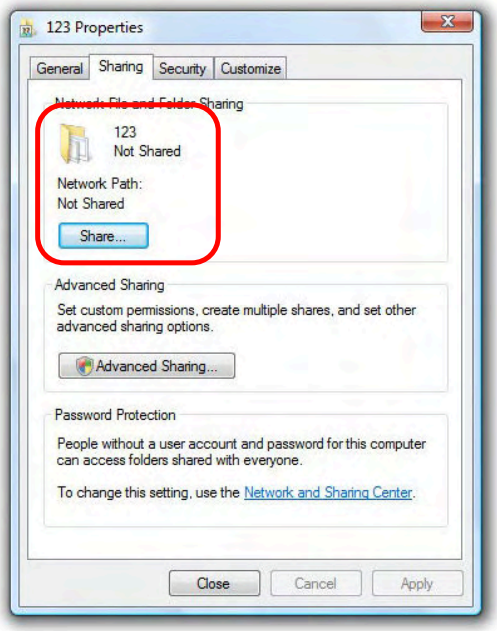
Shared Folder on Windows Vista

To access a shared folder on a local PC, you will need a computer which is connected to the same local network as your DS5. To use this function on Windows Vista, file sharing has to be turned on, password protected sharing turned off and a guest account with at least contributor level has to be added.

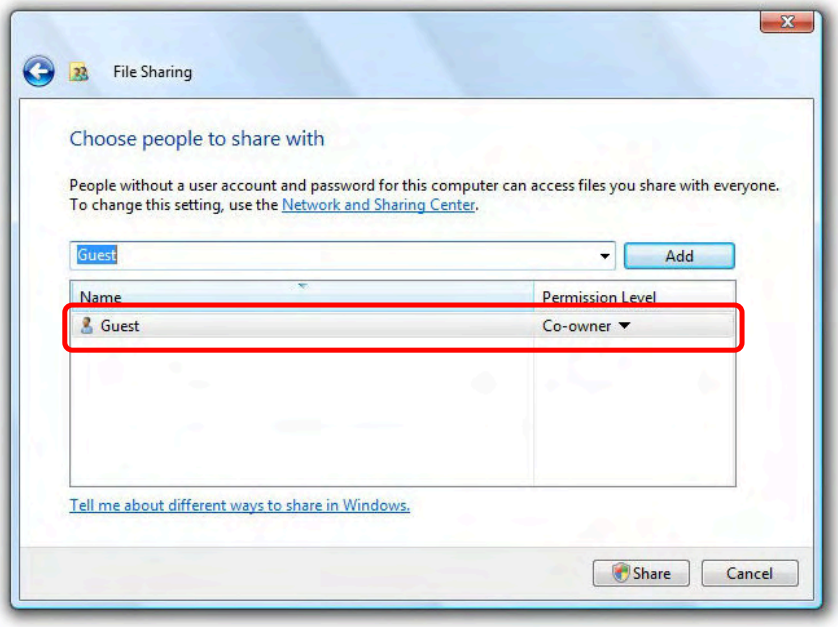
1. Go to the Control Panel, then to the **Network and Sharing Center**. Make sure file sharing is turned on and password protected sharing is turned off.


Control Panel ▸ Network and Sharing Center
Search
Tasks
View computers and devices
Connect to a network
Manage wireless networks
Set up a connection or network
Manage network connections
Diagnose and repair
Network discovery On
File sharing On
When file sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.
Turn on file sharing
Turn off file sharing
Apply
This computer might be set up to go to sleep when not in use. While the computer sleeps, people on other computers cannot access shared files or printers on this computer. To change this setting, go to Power Options in Control Panel.
Public folder sharing Off
Printer sharing Off (no printers installed)
Password protected sharing Off
When password protection is on, only people who have a user account and password on this computer can access shared files, printers attached to this computer, and the Public folder. To give other people access, you must turn off password protection.
Turn on password protected sharing
Turn off password protected sharing
Apply
Media sharing Off
Show me all the files and folders I am sharing
Show me all the shared network folders on this computer
See also
Bluetooth Devices
Infrared
Internet Options
Windows Firewall

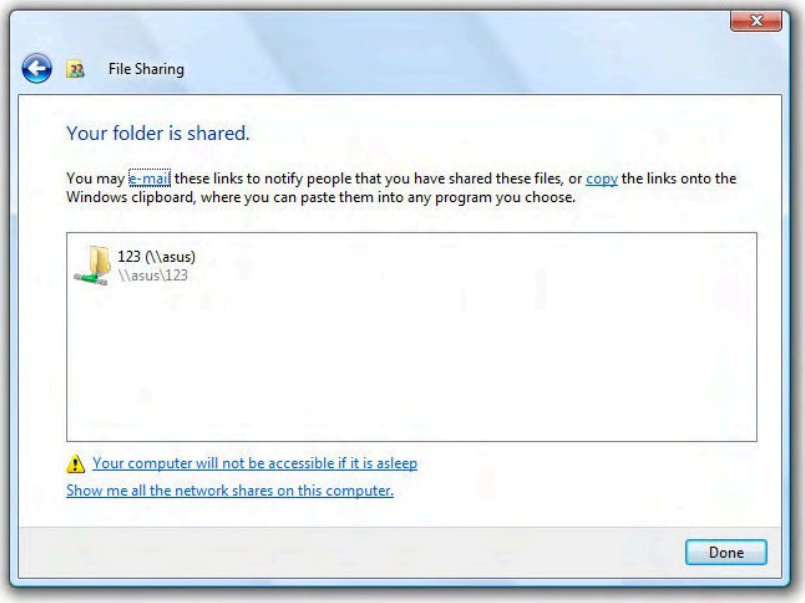
2. Set up a **shared folder** on your PC. To do so, right click on a folder, go to Properties and select the Sharing tab. Click on the Share button.



3. Select the **guest account** from the drop down list and add it. Change the permission level to Contributor or **Co-owner** and then click on Share.


File Sharing
Choose people to share with
People without a user account and password for this computer can access files you share with everyone.
To change this setting, use the Network and Sharing Center.
Guest
Add
Name
Permission Level
Guest
Co-owner
Tell me about different ways to share in Windows.
Share
Cancel

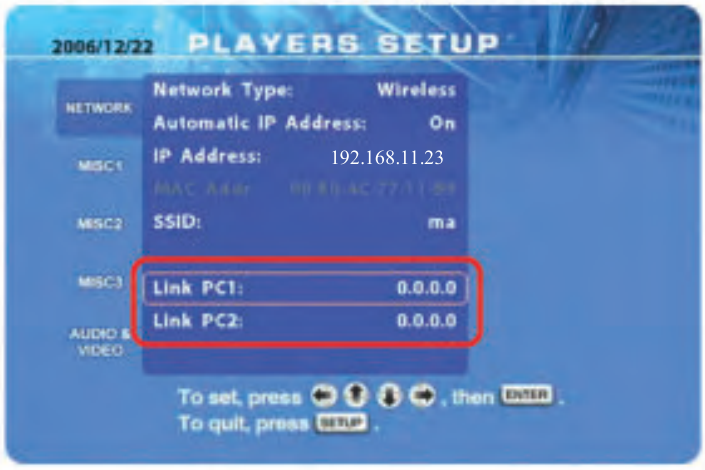
4. Your folder is now shared. Write down the **share name** and then click on Done to close the dialog.


File Sharing
Your folder is shared.
You may e-mail these links to notify people that you have shared these files, or copy the links onto the Windows clipboard, where you can paste them into any program you choose.
123 (\\asus)
\\asus\123
Your computer will not be accessible if it is asleep
Show me all the network shares on this computer.
Done

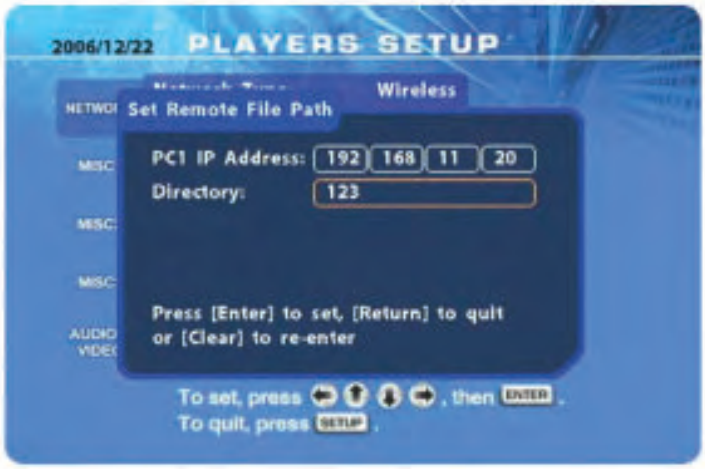
5. Make sure your **Firewall** is set up to allow access to the shared folder.

6. On DS5, press **SETUP** on your remote control to enter DS5's setup menu.

7. In the **NETWORK category**, you have two locations (**PC1 & PC2**) where you can add the shared folders. Press Enter to setup the file path.



8. Enter the **IP address of your computer** plus the directory and save it. As seen in step 4, the name for the shared folder in this example is 123, so the input for the **directory path** here would therefore be 123.


2006/12/22 PLAYERS SETUP
Wireless
Set Remote File Path
PC1 IP Address: 192 168 11 20
Directory: 123
Press [Enter] to set, [Return] to quit
or [Clear] to re-enter
To set, press , then ENTER.
To quit, press SETUP.

9. In order for these changes to take effect, exit the Setup menu and **reboot** the device immediately.

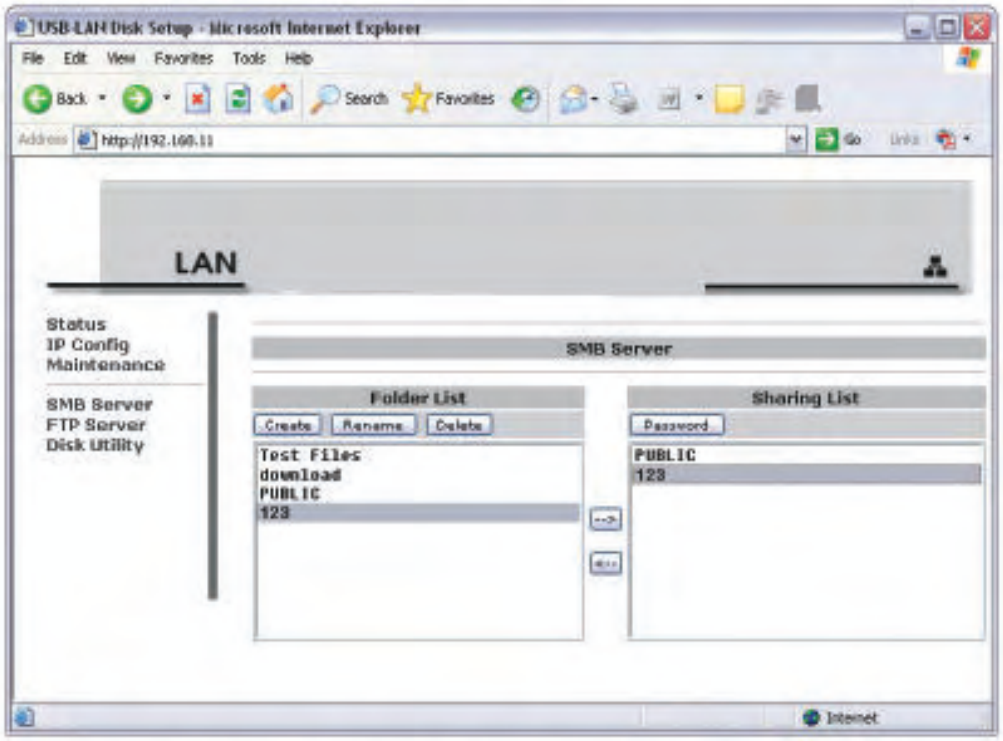
10. After rebooting, you can access the remote folder through your local network. Go to the **file library** and access the files in **PC1 or PC2**.

Note: If the permission level of the guest account is set to its default level Read, the DS5 can still access the files but will not be able to erase the remote commands on its own. We therefore strongly recommend to use Contributor or Co-owner.

LAN Disk

Instead of a local computer, you can also store the content on a network drive with SMB server such as a LAN disk for example. No computer is needed for this setup, as the LAN disk can be accessed directly via local network.

1. Set up a shared **SMB folder** on the LAN disk (example here → 123).



2. Write down the **IP address** of your LAN disk. You will need to enter this IP in step 7.

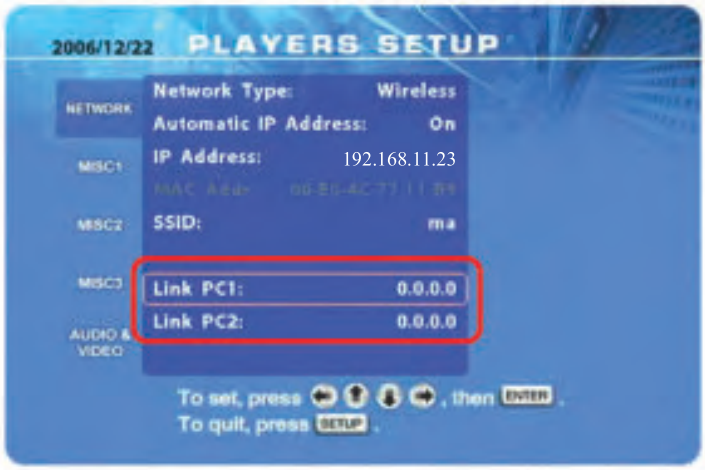
   Note: DO NOT enter any passwords for SMB folders.

3. Make sure the LAN disk is running, the folders are set up and it is connected to the **same local network** as your DS5.

4. On DS5, press **SETUP** on your remote control to enter DS5's setup menu.

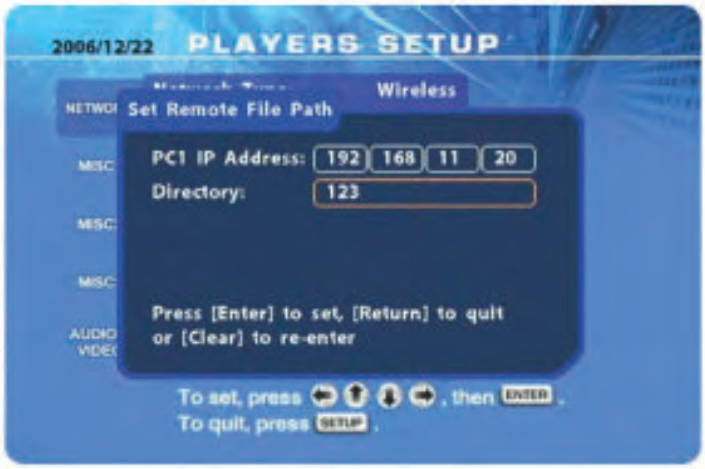
5. In the **NETWORK category**, you have two locations (PC1 & PC2) where you can add the path to your LAN disk.

6. Choose a link (**PC1 or PC2**) and press ENTER.



7. Enter the **IP address of your LAN disk** plus the directory and save it. As seen in step 1, the SMB folder in this example is 123, so the input for the **directory path** here would be 123.

   Note: Passwords are not supported.


2006/12/22 PLAYERS SETUP
Wireless
Set Remote File Path
PC1 IP Address: 192 168 11 20
Directory: 123
Press [Enter] to set, [Return] to quit
or [Clear] to re-enter
To set, press , then ENTER.
To quit, press SETUP.

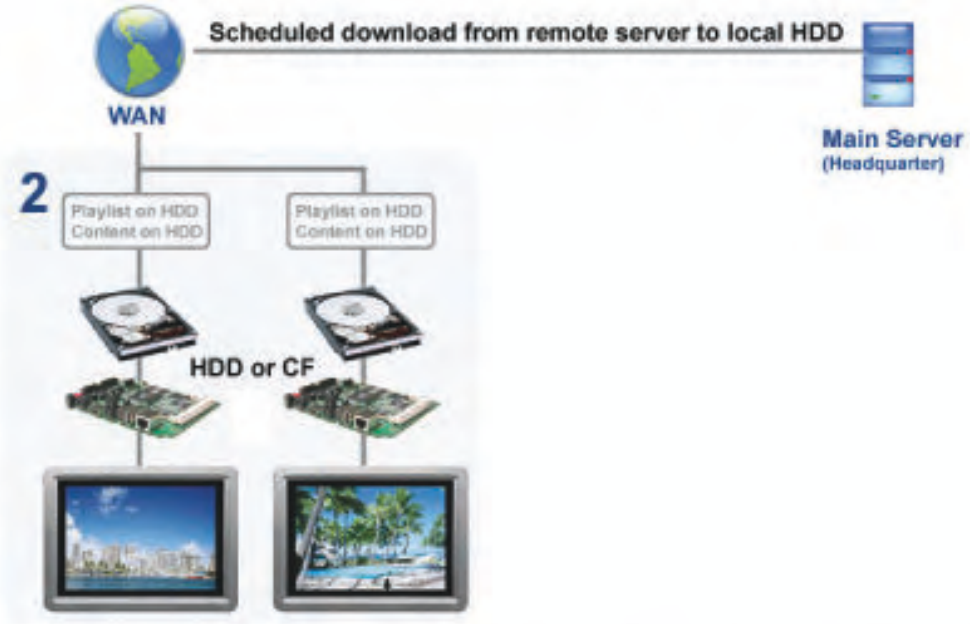
8. In order for those changes to take effect, you need to **reboot** the device immediately.

9. After rebooting, you will be able to access the remote folder through your local network. Go to the **file library** and access the files in **PC1 or PC2**.

Note: If you have updated some content on PC1 or PC2, you will need to reboot the DS5 before it recognises the new playlist or files.

Mode 2

A hard drive or CF card is installed and data is stored on the DS5. Each unit has its own storage but new content can automatically be downloaded at a certain time over the internet (WAN) from a server.



Advantage: Uninterrupted data playback is guaranteed, as all files are stored on the local drive. New data can automatically be downloaded via internet from a website or an FTP server.

Disadvantage: Additional cost, as each unit requires its own storage media, such as a HDD or CF card. Real time updates and immediate changes require TFTP traffic to be forwarded to the DS5 and let through the firewall, if necessary from the WAN.

The content on the local drive can be updated in two ways:

USB: New data is stored on a USB drive or USB thumb drive. To update the content, the USB drive has to be connected to the USB port on the DS5. Via remote control, the user can access the setup menu and use the file copy command to move the new files to the local drive.

Server: A download list is stored on a remote server (FTP or HTTP), with the path to new content either on the same server or at another location on the internet. In the setup menu of the DS5, the path to the download list is and the time for the download to start is set. The DS5 will automatically start to download new content at the allotted time and start to playback the new content once ready.

Disk Management

To manage the data on the local hard drive and to update the files with new content, access the file copy and erase command in the MISC2 category.

File Copy

1. Press the SETUP button and go to File Copy in the MISC2 category.
2. Choose one of the functions and press ENTER to start the copy process.
3. The copy status will be displayed on screen and once finished, it will return to the main screen.

Note: Only files in the root directory will be copied. Any existing files with the same file name will be overwritten.

File Erase

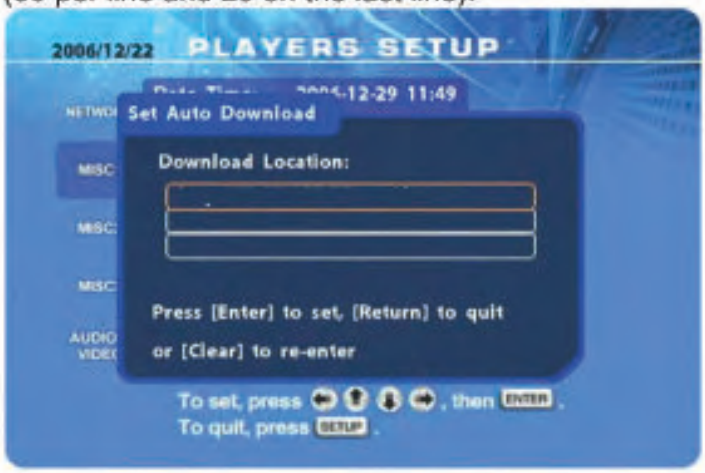
1. Press the SETUP button and go to File Erase in the MISC2 category.
2. Select the drive and press ENTER to start the process.
3. It will erase all files on the selected drive and once finished, it will return to the main screen.

Note: To copy only single files to the local HDD or erase them, use the SELECT button to copy the file or the CLEAR button on your remote control to erase it.

Scheduled Download
To download new content over the internet and store it on the local drive, the DS5 can be scheduled to download new content automatically and also update the playlist at the same time. It can access an FTP server or an HTTP link.

To use this function, enable the Download List by setting it to Foreground or Background, set the path to your server and create a download list with the path to the new media files.

1. Press **SETUP** on your remote control to enter the DS5's setup menu.
2. In the MISC1 category under Download List, select **Foreground or Background**.
3. **Set the path** to your server by entering the URL with a maximum of 80 characters (30 per line and 20 on the last line).



4. For the URL, use the **IP address** and enter the path to the folder where the download list is located. This can either be an HTTP or a FTP address. For password protected FTP accounts, use ftp://loginname:password@IP/folder/.
5. **Set a time** when the download should start and save the settings.

6. If set to **Foreground**, it will show the progress during download and once finished, it will reboot automatically. If set to **Background**, it will download the files without showing any on-screen messages or interrupting the playback. Automatic reboot will not take place. Using the **Skip** option will skip the files that have already been downloaded according to the file name.

Creating a Download List
The DS5 will download the new content according to the download list. Create a new text file called "down.lst", add the URL to the media files to be downloaded and store it in the remote directory which you previously set up on your server.

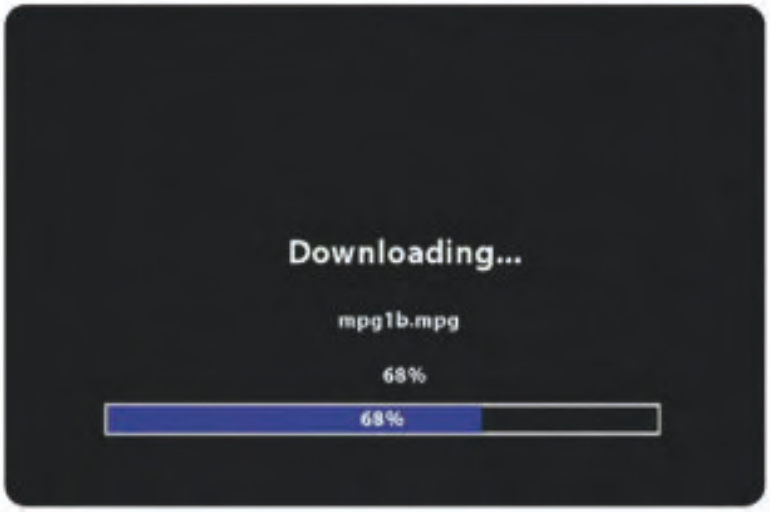
New files will be stored on the local drive and added to your existing files.

1. Create a new text file and call it "**down.lst**".
2. **Add the URL** to the playlist as well as the media files followed by a space and the path to define the directory where the new files are to be stored. Use the IP address and the complete address, one file per line.
3. Save the download list and **store the file on your server** in the same location as the path you setup on your DS5.

Note: The URL to the media files do not have to be on the same server but make sure to use the IP address instead of the domain name. Add one more empty line at the end.

Downloading New Content
At the scheduled time, the DS5 will automatically connect to the internet. It will read the content of the download list and start downloading the files accordingly. The media files will be stored and added to the existing files on the local drive.

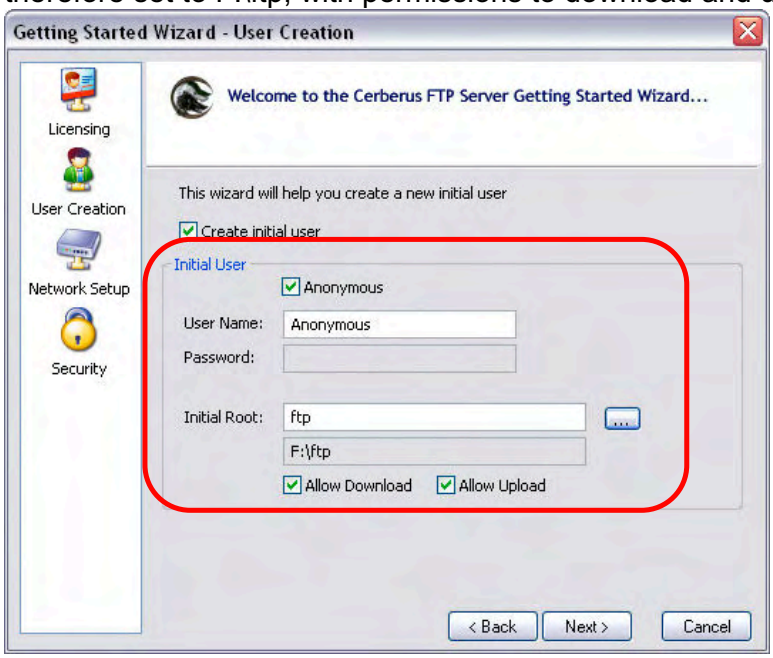
If the download mode is set to Foreground, it will show the progress and automatically reboot upon completing the task. If set to Background, the download will be hidden and the unit does not reboot automatically. Use the Skip option to skip the file if the same file name already exists on the local hard drive.



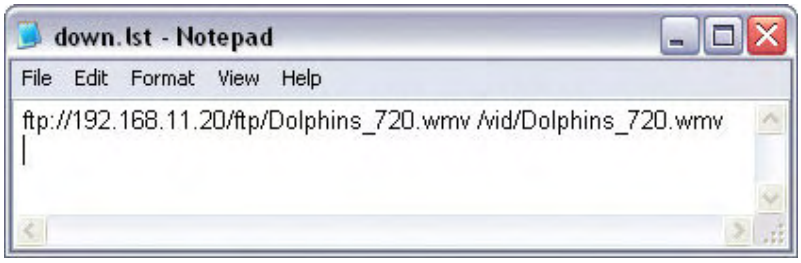
FTP Server

For demonstrations and a convenient way to update the content, following is an example of how to set up the Cerberus FTP server on a PC. You can of course also use a different application or a device like the LAN disk.

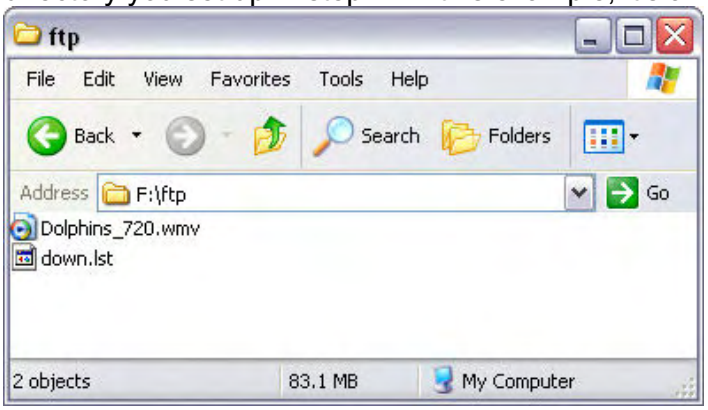
1. **Install the Cerberus FTP server** on your computer.
2. Follow the setup wizard and **set up an anonymous user**. In this example, the files for the download are stored in the ftp directory on the F: drive. The root folder is therefore set to F:\ftp, with permissions to download and upload.



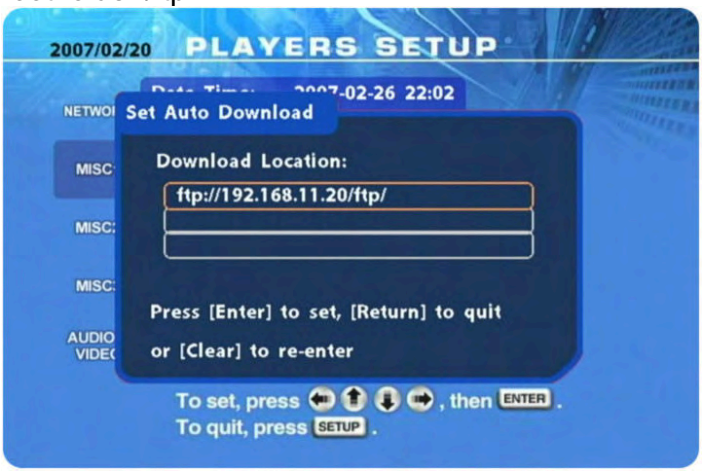
3. In the next step, the FTP server will attempt to detect the external IP address of your WAN. If port forwarding on your router is set up to allow such traffic, the FTP server can also be accessed from outside the local network. If not required, you can **skip this step**.
4. The last step with the security settings **can be skipped**. Leave this turned off.
5. If necessary, **modify your firewall** to allow the Cerberus FTP server access to the local network and also allow the DS5 access to the files on your computer.
6. **Create the download list** and store it in the root folder you set up in step 2. In this example, a video stored in the same directory will be downloaded and stored in a new sub-folder called vid.



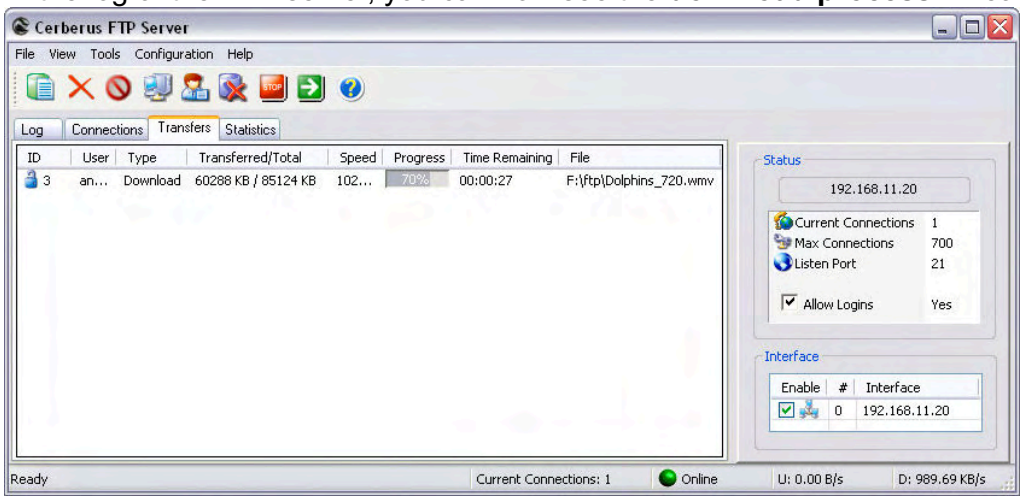
7. **Store the files** you like to download in the root folder or in a sub-folder in the same directory you set up in step 2. In this example, it's a WMV video.



8. On the DS5, go to the Misc1 category in the **setup menu** and enter the **path to your FTP server**. In this example, both DS5 and computer are on the same local network. The path is ftp://, followed by the IP address of the computer and the location of the root folder /ftp.



9. Set a time for the scheduled download or use the configuration tool to send the downnow command, initialising the **download** immediately.
10. In the log of the FTP server, you can now see the **download process** in real-time.



Mode 3

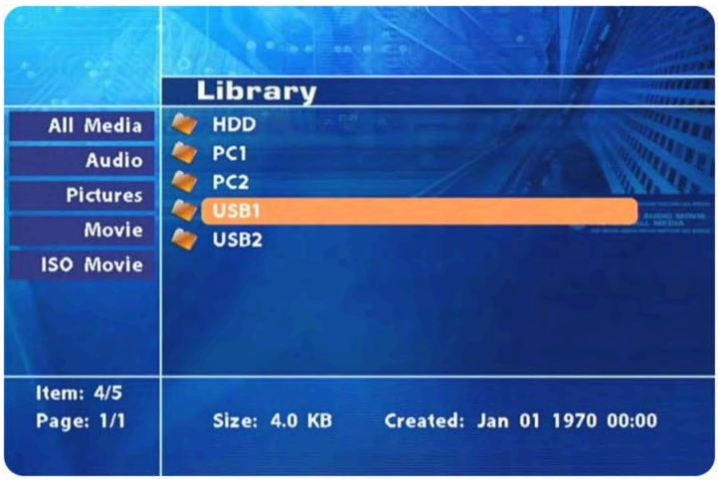
There is no network connection or local drive whatsoever. The data is accessed from a USB drive via one of the DS5's USB ports.

Advantage: No network connection or local hard drive is required. Set up is simple and quick. Data can easily be exchanged by unplugging the USB drive and using a computer to change the files.

Disadvantage: No remote update possible, and the USB drive has to be physically removed if content needs to be updated.

USB Drive
To access the USB drive, simply connect it to one of the USB ports on DS5.

1. **Turn on the device**, then boot up DS5.
2. In the file library, you can now access the drive under **USB1 or USB2**, depending on which port is used.
3. File systems supported at this time are **FAT16 and FAT32**.



Note: Self powered USB drives are recommended. If more than one bus powered USB drive is connected, there might not be sufficient power to run the second drive.

Automated Play Modes

[Standard] Default setting for the standard media player with user input via remote control. The DS5 will show the main page after boot up and present the user a choice to access the files using the file library.

[Repeat] In this mode, the playlist function will be turned OFF, the DS5 automatically plays all files stored in the root directory as soon as the unit is turned on and play them continuously. This will include the root directory of the local drive as well as PC1, PC2 and any of the attached USB drives. The playback sequence will be according to the file name and in following order from HDD to PC1, PC2, USB1 and USB2.

To turn it OFF, press STOP on your remote control to pause the playback, then press SETUP to enter the setup menu, go back to Misc2 and change it to STANDARD.

Note: Enabling the playlist function (Misc1) will automatically reset the play mode to STANDARD.

[Manual & Standby] Playback mode with quick access to certain files via numeric buttons on the remote control from 000-999. This mode can be used for kiosks and other digital signage applications, where users may request certain information with the push of a button. Reboot the device after you have enabled this function.

When this mode is used, the player will require a title file (000.avi or 000.jpg & 000.mp3) and up to 999 AVI files, which are played when the numeric buttons are pressed. In Manual mode, once the AVI file has finished playback, it will return to the title file until another button is pressed. In Standby mode, it will wait for further user input. Those files can either be stored on the local hard drive or the CF card.

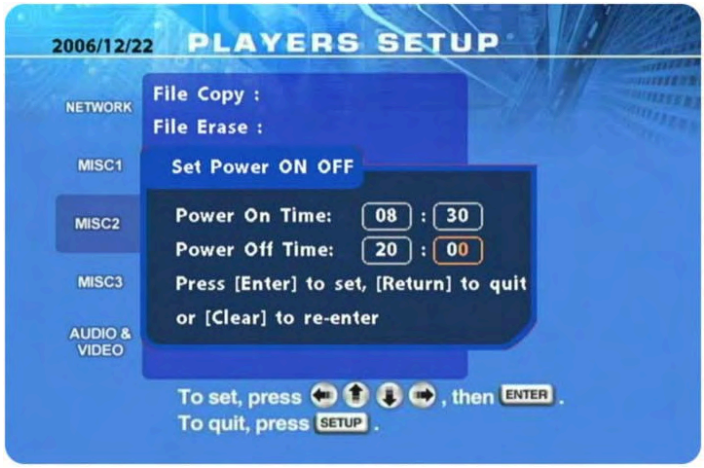
Button	File
000 (title file)	000.avi or 000.jpg & 000.mp3
001-999	001.avi ~ 999.avi

Note: If you use the Manual or Standby mode and there is no 000 file, it will display a message saying "No Title Files Found". The same message will appear if the 000 file is not an AVI or JPG&MP3 file.

Note: Make sure that there is no more than one file with the same file name!

[Auto ON/OFF] Turning this function ON will allow you to set a time for the unit to automatically turn ON and also a time for it to turn OFF again.

1. Press **SETUP** on your remote control to enter the DS5's setup menu.
2. In the MISC2 category, turn on the **Auto ON/OFF** function.
3. Select the **ON/OFF Time** and enter a time for each option.



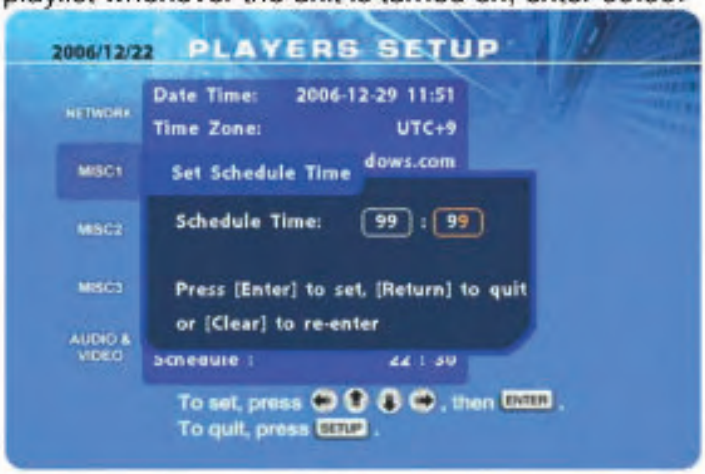
Note: Make sure the NTP server is enabled and the DS5 has a connection to the internet to synchronise the time. If it can not connect to the internet at boot up, the system time will be off and the Auto ON/OFF function therefore inaccurate.

Playlist

The DS5 supports LST playlists, to be played back automatically at boot up or a certain time. To enable this function, turn on the Playlist function and set the path to your playlist.

1. Press **SETUP** on your remote control to enter the DS5's setup menu.
2. In the **MISC1 category**, turn the Playlist function ON.
3. Set the **path to the playlist** depending on which media it is stored.

4. Once the path is set, you can enter the **playback time**. To automatically use the playlist whenever the unit is turned on, enter 99:99.



5. Reboot your device and if you set 99:99, **automatic playback** will start immediately.
6. To turn off the playlist, press STOP to halt the playback, press SETUP to enter the setup menu and turn off the Playlist function.

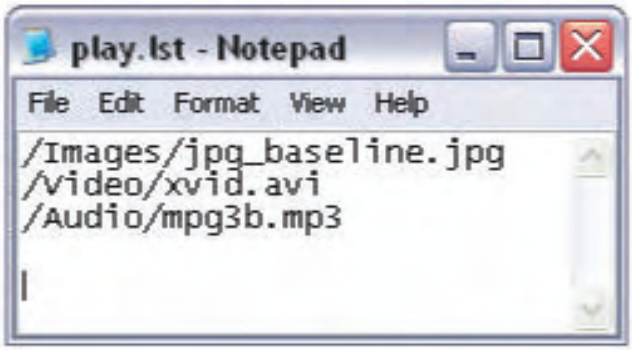
Once the playlist is enabled and in use, the user can only see the files that have been added to the playlist. To return to the standard mode, go to the setup menu and turn the playlist function OFF.

Note: For testing or automatic playback of the playlist whenever the unit is turned on, set the play time to 99:99. The playback will start and repeat playing the listed files until the unit or the playlist function is turned OFF.

Creating a Playlist

To set up your own playlist, create a new text file called "play.lst". Fill in the path to your files, to be used for automatic playback and store it on the hard disk or media you set up in the previous steps.

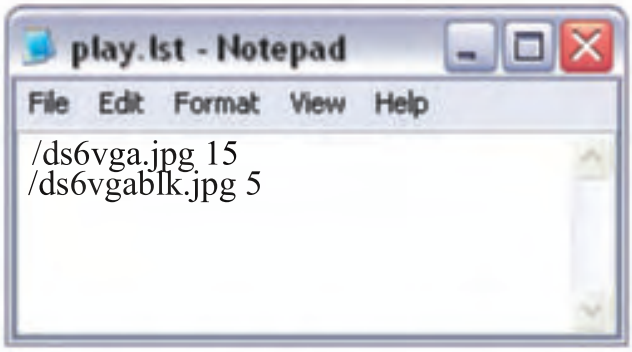
1. Create a new text file and name it "**play.lst**".
2. Add the **relative path** to your files. One file per line.
3. Make sure to add one **empty line** at the end of the list.
4. **Save** and store the playlist on your local drive.



Note: Only English characters are supported in the playlist and there should not be any special characters or empty spaces in the path. Make sure to add one more empty line at the end of the playlist.

Display Time for Images

For images, you can set a display time in seconds (max 65535 seconds). Simply add a space after the file path and write the time in seconds. Refer to the following image as an example.



Note: The display time will be added to the standard display time of 10 seconds, so if you write 5, it will display the image for 15 seconds.

Daily Playlist
In order to have different playlists throughout the week without having to manually update them every day, you can create daily playlists based on the date.

1. Create a **playlist** as seen in the previous steps.
2. Rename the file from play.lst to the date when that list should be used. As an example: **20070408.lst**
3. Create as many lists as you like and store them on the local drive or the remote folder in the **root directory**.
4. **Every day at midnight**, the DS5 will **automatically refresh** the content and if there is a specific playlist found for that day, it will rename the file to play.lst and use it for playback throughout the day. If the unit is not running at midnight, it will refresh the content as soon as it's started.

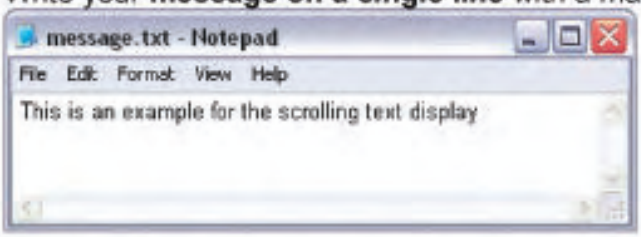
Note: Always use 8 numbers for the date (example: 20070408). To use the daily playlist function, make sure the DS5 has access to a NTP server to synchronise the time.

If there is no particular playlist for that day, the DS5 will use the list from the previous day that has already been renamed to play.lst.

Scrolling Text

The DS5 can display an on-screen message in form of a scrolling text bar at the bottom of the screen. To use this function, store a text file "message.txt" on the local drive, enable the scrolling text option in the setup menu and start playback.

1. Create a new text file and name it "**message.txt**".
2. Write your **message on a single line** with a maximum of 512 English letters.

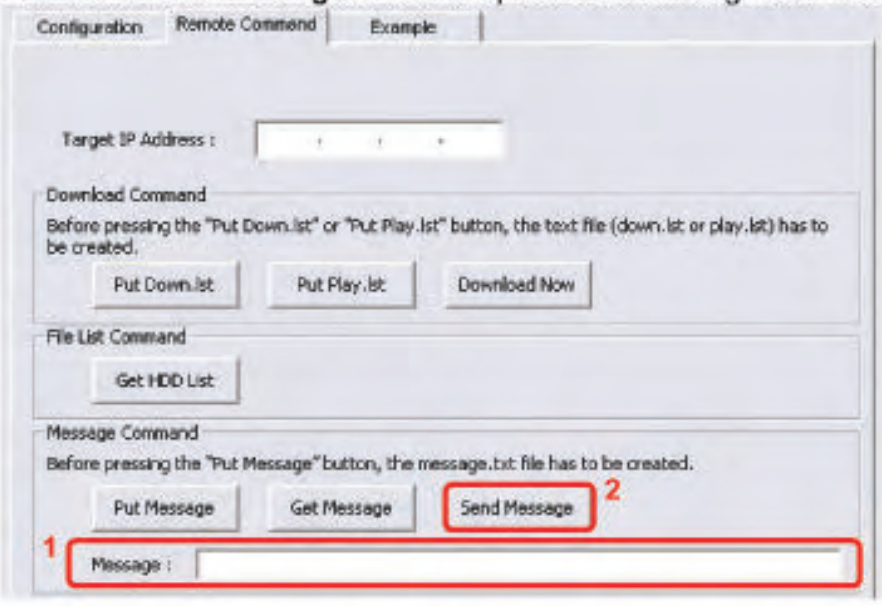


3. **Upload the file** to the local drive on the DS5.
4. Go to the Misc3 category in the setup menu and **turn on the scrolling text**.
5. **Play any video clip** or other media file and the scrolling text will be displayed.

Note: The scrolling text message is not available during playback of ISO files.

To update the text message during playback, you can use the Configuration Tool on the PC and send the message via local network.

1. Start the **configuration tool**.
2. Select the **Remote Command** tab.
3. Type a **new message** in the Message text field.
4. Press the **Send Message** button to update the scrolling text immediately.



Note: To support Chinese characters, download the font "hzx24.fnt" from our website and store it on the local drive or CF card. The maximum amount for Chinese characters in a text message is 256.

Remote Commands

To remotely control the DS5, certain basic commands are available. As an example, they can be used to restart the unit, change the scrolling text or get the HDD content.

Additionally, for maintenance, setup and immediate updates, the following commands are available:

[reboot] This command will reboot the device.
[downnow] This command will initialise the download function if a path has been set.
[erasehdd] This command will erase all files stored on the local drive or CF card.
[eraseusb1] This command will erase all files stored on the attached USB drive on port 1.
[eraseusb2] This command will erase all files stored on the attached USB drive on port 2.
[delfiles] This command will erase all files listed in the delete.lst file.
[getfiles] This command will create a file index of the current files on the local HDD.
[restoreconfig] This command will upload the new settings from the config.conf file.
[saveconfig] This command will save the current settings to a config.conf file.
[osd_on] This command will turn the on-screen messages ON.
[osd_off] This command will turn the on-screen messages OFF.
[scrolling_on] This command will turn the scrolling text message ON.
[scrolling_off] This command will turn the scrolling text message OFF.
[reloadplaylist] This command will refresh the playlist and file content.

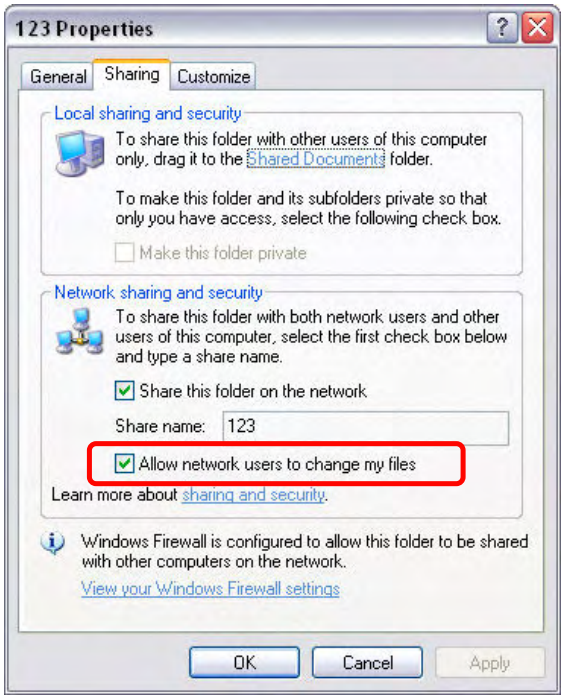
Note: The DS5 will check for these command files in the remote command path every 5 seconds. To set this path, go to the setup menu and select the Misc2 category. If you are planning to use TFTP or the Configuration Tool, set it to HDD, if you are planning to store them on a remote server or LAN disk, set it to PC1 or PC2.

To use the command files, store them on PC1, PC2 or transfer them to the local drive via TFTP or the Configuration Tool. For more details to TFTP and the Configuration Tool, please refer to the Appendix.

Creating a Command file

1. Create a **new text file**.
2. Rename it and call it **reboot** as an example or any other command seen above. This file can have the .txt extension but can also be saved with no extension at all.
3. Place the command file in the root directory of your **remote folder at PC1 or PC2**.
4. The DS5 will check the remote folder **every 5 seconds** for the any new commands.
5. If a new command file is found, it will delete it, show an onscreen message and **initialise the command**.

*Note: Make sure to **allow network users to change your files** on the shared folder. If access is denied, the DS5 will not be able to delete the command files and therefore will keep restarting or executing the command until the file has been manually removed.*


123 Properties
General
Sharing
Customize
Local sharing and security
To share this folder with other users of this computer only, drag it to the Shared Documents folder.
To make this folder and its subfolders private so that only you have access, select the following check box.
Make this folder private
Network sharing and security
To share this folder with both network users and other users of this computer, select the first check box below and type a share name.
Share this folder on the network
Share name: 123
Allow network users to change my files
Learn more about sharing and security.
Windows Firewall is configured to allow this folder to be shared with other computers on the network.
View your Windows Firewall settings
OK
Cancel
Apply

Instead of storing the command file on PC1 or PC2, you can use TFTP and transfer it to the local HDD.

1. Create the **command file** as seen above and store it on your **C: drive**.
2. On a PC, go to START and RUN, then type cmd and hit Enter to bring up the **DOS command tool**.
3. Make sure the tftp.exe process has access to the network and then type following command but replace the IP address with that of your DS5:
   tftp -i 192.XXX.XX.XX PUT C:\reboot /reboot
4. Your DS5 should now reboot.

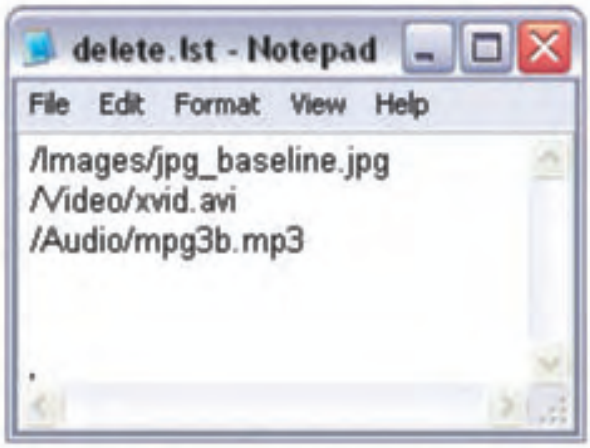
Note: If you are not in the same network, make sure your router is set up to forward the traffic on port 69 to your DS5 and the firewall will allow the traffic to pass through. Not all routers support port forwarding, so you might not be able to access the DS5 unless you are on the same local network!

Creating the File Index
To maintain and update the files on the local drive via TFTP, first create a file index and then download the list to your computer. With the help of this index, the available capacity can be estimated and if necessary, files can be deleted with the help of the delete list.

1. Send the **getfiles** command to create the index. Depending on the capacity and amount of files, this might take several seconds.
2. The **index** will be stored in a text file "DS5files" in the root directory "/DS5files".
3. **Download the "DS5files" text file** to your computer and open it with a text editor.

Creating a Delete list
To remotely erase certain files on the local drive, create a new text file called "delete.lst". Fill in the path to your files which you like to delete and store the text file on PC1 or PC2. If you are using TFTP or the Configuration Tool on the PC, upload the file to the local drive on the DS5.

1. Create a new text file and name it "**delete.lst**".
2. Add the **path** to your files on the local HDD. One file per line.
3. Make sure to add one **empty line** at the end of the list.
4. **Save** and store the delete.lst on PC1, PC2 or the local drive.



The correct structure for the file path is as follows: /FilePath/FileName

To use this delete.lst file, please refer to the previous pages about Remote Commands.

Note: Only English characters are supported in the delete list and there should not be any special characters or empty spaces in the path. Make sure to add one more empty line at the end of the delete list.

Chapter 5 - Appendix

FAQ

Q: I've modified some of the settings but there seems to be no change!
A: Make sure you have saved the new settings, then exit the Setup menu and restart the unit by turning off the power switch, then turning it back on a few seconds later.

Q: I've set up the scheduled download but the files are nowhere to be found!
A: The download function only works with an internal drive. Make sure either a hard drive or CF card is installed and it is recognised by the DS5 before you enable the download function. The files will then be stored in the directory you have defined in the downl.lst file.

Q: I've installed a local drive but it is not recognised by the DS5!
A: Make sure the jumper is set to Master (for 3.5" drives) and format the HDD using the FAT32 file system before installing it. If it is not recognised, change the jumper as seen in Chapter 2.

Q: Why are some of the functions in this manual not the same as on my DS5?
A: The functions may change with every firmware update. Please download the latest manual and firmware from our website. If some of the functions are still missing, contact your sales representative.

Q: How do I upgrade the firmware?
A: See page 22 or refer to the instructions on the website.

Q: What is the current version of my firmware?
A: You can see the date of your current firmware in the setup menu. Turn on your DS5 and once ready, press the SETUP button on your remote control to enter the setup menu. The date will be displayed on that screen.

Q: Can I turn off the messages like "Loading File" as an example?
A: Yes, you can turn off the on-screen messages in the setup menu. Go to the MISC2 category and turn off the OSD messages.

Q: I've added three files to my playlist but only two of them are displayed!
A: When you create the playlist, add one more empty line at the end of the playlist before you save the file.

Q: I've enabled the Manual/Standby Play Mode and now it shows "NO TITLE FILES"!
A: This message will appear if there is no 000.avi or 000.jpg & 000.mp3 file on the local drive. It will also appear if a numeric button is pressed but there is no such a file. Make sure to rename your files properly and store them on the local drive, then try again.

Q: The remote commands of the Configuration Tool don't work on Windows Vista.
A: The TFTP Client on Windows Vista is disabled by default but the Configuration Tool needs this application to send the remote commands. Go to the Control Panel and turn on the TFTP client, then try again.

Remote Control Key Functions

Item	Button	Browser Mode	Playback Mode
1	Power	Power OFF	Power OFF
2	1	1 - .:/@	N/A
3	2	2 - ABC	N/A
4	3	3 - DEF	N/A
5	4	4 - GHI	N/A
6	5	5 - JKL	N/A
7	6	6 - MNO	N/A
8	7	7 - PQRS	N/A
9	8	8 - TUV	N/A
10	9	9 - WXYZ	N/A
11	0	0 - Space	N/A
12	CLEAR	Delete file or Backspace	N/A
13	SELECT	Copy file to local HDD	N/A
14	TV MODE	Toggle video output	Toggle video output
15	SETUP	Enter or exit setup page	Adjust contrast & saturation
16	MUTE	N/A	Mute sound
17	VOLUME	N/A	Volume +/-
18	UP	Up	Up
19	DOWN	Down	Down
20	LEFT	Left	Left
21	RIGHT	Right	Right
22	ENTER	Enter/Select	Enter/Play
23	RETURN	Return to main screen	Return to previous screen
24	MENU	N/A	N/A
25	A-B	N/A	N/A
26	PREV	Previous page	Previous clip
27	PLAY	N/A	Play
28	NEXT	Next page	Next clip
29	REPEAT	N/A	Repeat all files
30	REV	N/A	Rewind
31	STOP	N/A	Stop playback
32	FWD	N/A	Forward
33	INFO	N/A	Display file info
34	SLOW REV	N/A	Slow rewind
35	PAUSE/STEP	N/A	Play/Pause
36	SLOW FWD	N/A	Slow motion (MPEG)
37	EDIT/PROGRAM	N/A	N/A
38	TITLE	N/A	N/A
39	SUBTITLE	N/A	N/A
40	AUDIO	N/A	N/A
41	SHUFFLE	N/A	Shuffle list
42	ANGLE/ROTATE	N/A	N/A
43	SEARCH	N/A	Time search (FWD by time)
44	ZOOM	N/A	N/A

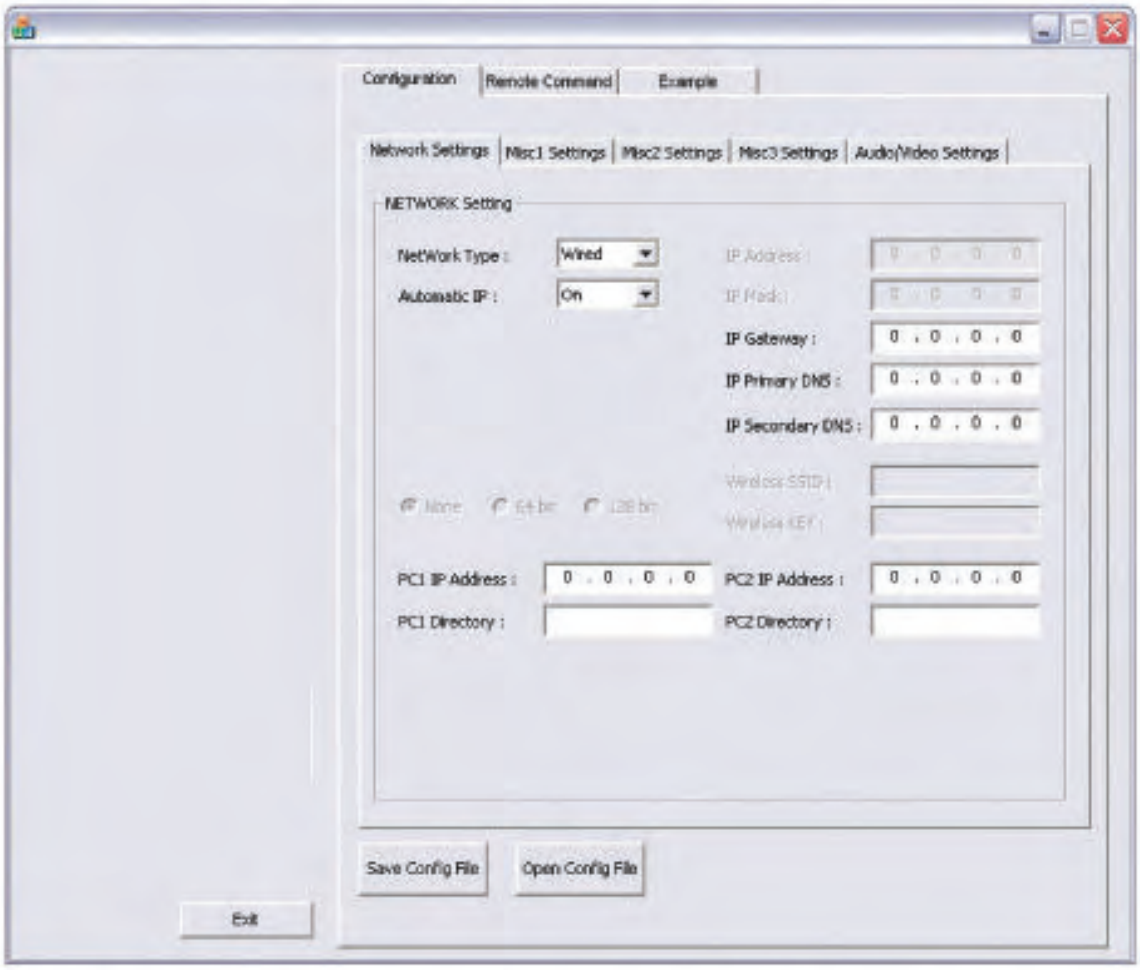
Configuration Tool

This tool was designed for quick and easy configuration of the settings of the DS5, as well as to send remote commands with a push of a button. Unfortunately, this tool is only available for the PC platform, so if you are using a different Operating System, please refer to the TFTP section or use the remote control instead.

Make sure that when you upgrade the firmware, you also download the latest version of this configuration tool.

Configuration
Start the configuration tool and select the Configuration tab. You can now create a new configuration file by adjusting the settings and filling out the empty fields or open an existing config.conf file and adjust it.

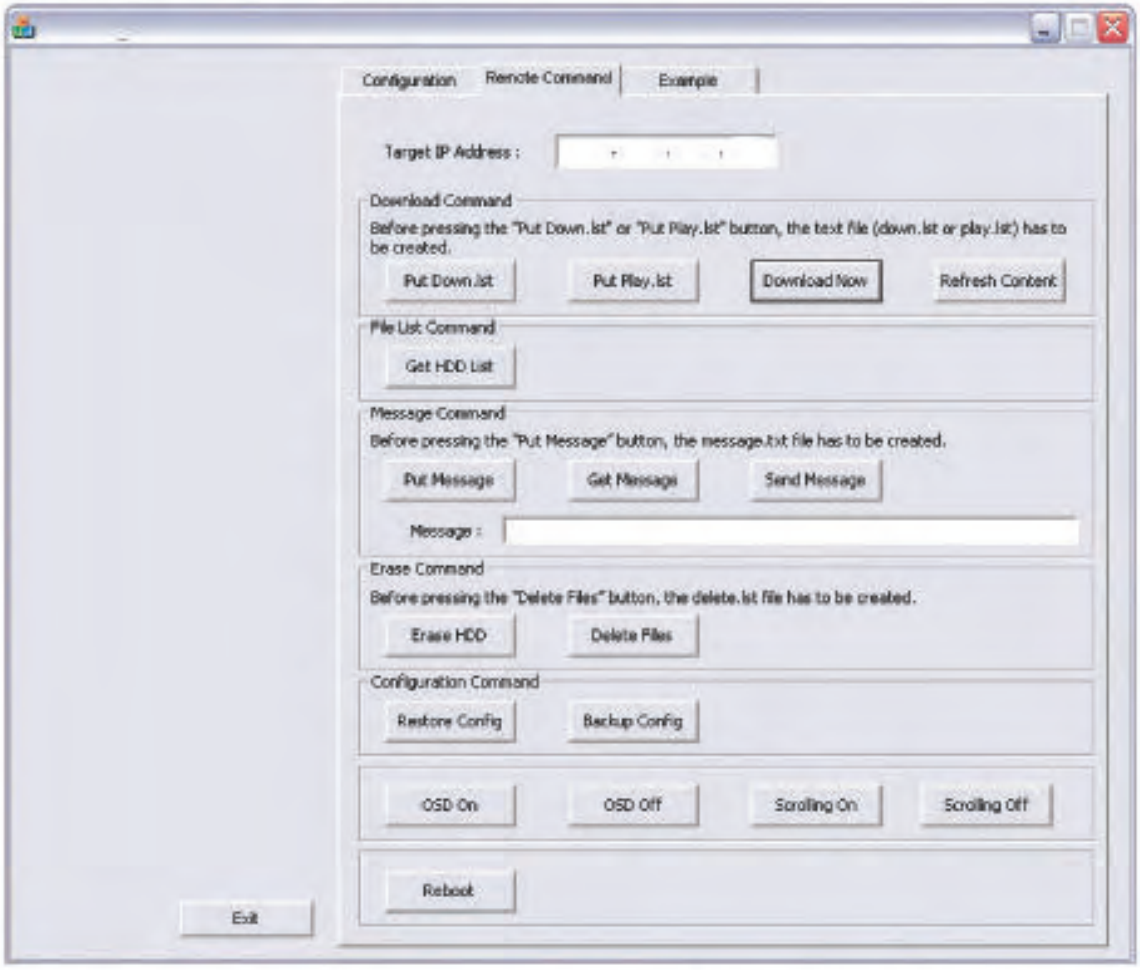
Once you have made your modifications, save the configuration file to your local drive. For organisational purposes, you can use any file name you like but when you want to upload it to your DS5, the file name has to be config.conf.



Note: You can also edit the config.conf file with a standard text editor like Notepad.

Remote Command
Start the configuration tool and select the Remote Command tab. Enter the IP address of your DS5 and then press any of the buttons to send the command to your DS5.

Important: Do not press several buttons at the same time and always wait at least 10 seconds before sending the next command!



Note: This tool is using the tftp.exe process to send the commands. Make sure your firewall is set up to allow traffic on port 69 for this process or it will not work.

Note: If you are not in the same network, make sure your router is set up to forward the traffic on port 69 to your DS5 and the firewall will allow the traffic to pass through. Not all routers support port forwarding, so you may not be able to access the DS5 unless you are on the same local network!

***Note for Windows Vista**: By default, the TFTP Client is turned off. Go to Control Panel, Programs and Features, select Turn Windows features on or off and enable the TFTP Client, otherwise this tool will not be able to send the remote commands.*

See next page for an explanation of the individual buttons.

Download Command
[Put Down.lst] Prompts for and uploads the download list.
[Put Play.lst] Prompts for and uploads the play list.
[Download Now] If the path has previously been set, this initialises the download function.
[Refresh Content] Refreshes and updates current playlist and repeat list if new files exist.

File List Command
[Get HDD List] Creates file index of the current media files on the DS5 and downloads the list to your computer. Depending on the quantity, this might take a couple of seconds.

Message Command
[Put Message] Prompts for and uploads the scrolling text message.
[Get Message] Downloads the current text message to your computer.
[Send Message] Live update the scrolling text by typing a new message in the Message text field and pressing this button.

Erase Command
[Erase HDD] Erases all files stored on the local drive or CF card.
[Delete Files] Uploads the delete.lst and initialises the delfiles process.

Configuration Command
[Restore Config] Uploads the config.conf file and initialises the restoreconfig process.
[Backup Config] Saves current settings and downloads them to your computer.

OSD Command
[OSD On] Turns the on-screen messages ON.
[OSD Off] Turns the on-screen messages OFF.
[Scrolling On] Turns the scrolling text message ON.
[Scrolling Off] Turns the scrolling text message OFF.

[Reboot] Reboots the device.

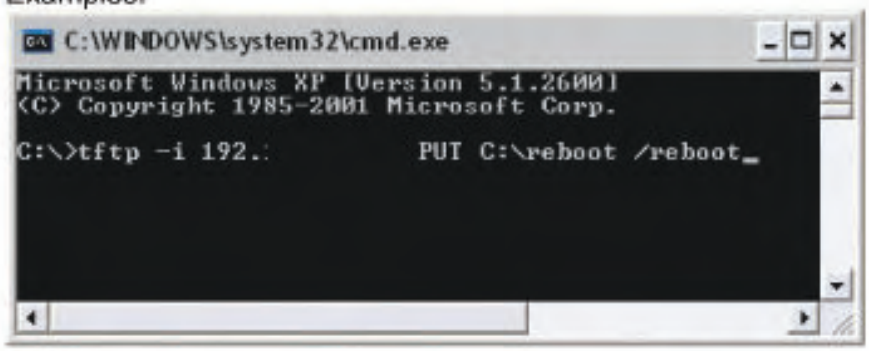
TFTP

Instead of sending the commands using the configuration tool, you can also send them using the DOS command prompt. The following are a few examples and the command structure:

tftp [-i] [DS5 ip] PUT/GET [source file] [target file]

Command	Meaning
tftp	Uses the tftp.exe process to transfer files
-i	Binary file
DS5 IP	Insert the IP address of your DS5 here
PUT/GET	Use PUT for uploading and GET for downloading files
Source File	Path to your source file
Target File	Path to your target file

Examples:


C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\>tftp -i 192. PUT C:\reboot /reboot

This will upload the reboot file stored on your C: drive to the DS5 at 192.XXX.XX.XX and reboot the unit.

- tftp -i 192.XXX.XX.XX PUT C:\downnow.txt /downnw.txt

  This will upload the downnw.txt file stored on your C: drive to the DS5 at 192.XXX.XX.XX and tell it to initialise the download process now.

- tftp -i 192.XXX.XX.XX GET /config.conf C:\config.conf

  This will download the config.conf file from the local drive on DS5 at 192.XXX.XX.XX and store it on your C: drive.

- tftp -i 192.XXX.XX.XX PUT C:\config.conf /config.conf

  This will upload the config.conf file stored on your C: drive to the DS5 at 192.XXX.XX.XX. A logical command to follow would be restoreconfig to upload the new settings.

Note: TFTP on Windows is restricted to a maximum file size of 32MB. You can transfer files using this method but we recommend using the download function instead and just sending the downnow command via TFTP.

About this Manual

This manual covers all versions for the DS5 and some of its optional accessories. Firmware, images and descriptions may therefore slightly vary between this manual and the actual product you have.

Throughout this manual, the products are referred to as DS5, unless a certain function or feature is specific to one particular model only, in which case DS5M or DS5-OE will be used.

Whenever you update the firmware, we recommend also downloading the latest PDF version of this manual as well as the latest configuration tool.

The information contained in this manual is believed to be accurate and reliable. We assume no responsibility for any errors contained in this manual and reserves the right to make changes in the specifications and/or design of this product without prior notice. The diagrams contained in
this manual may also not fully represent the product that you are using and are there for illustration purposes only. We assume no responsibility for any differences between the product mentioned in this manual and the product you may have.